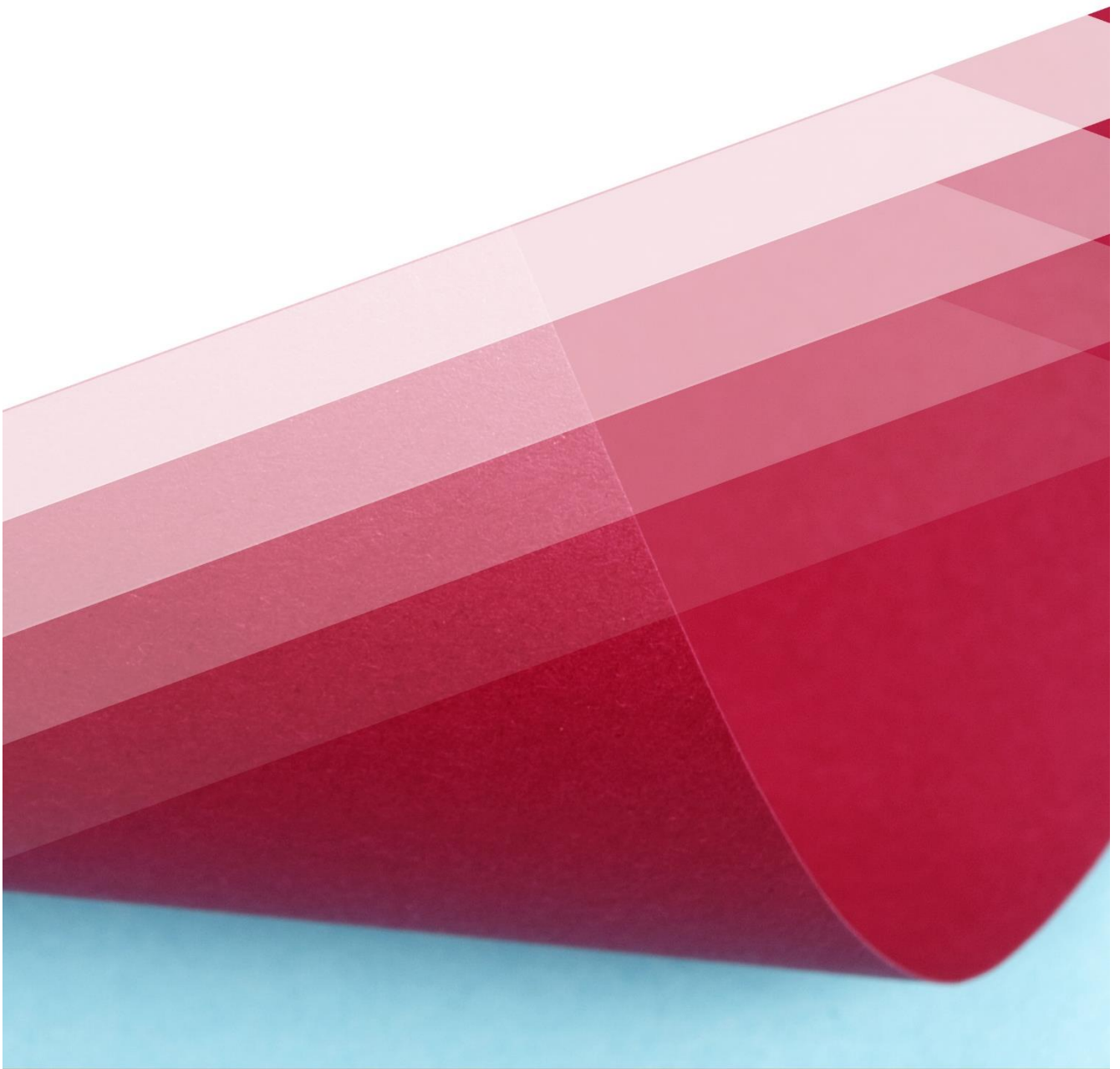




SURFACE PROTECTION FILMS DATA SHEET COLLECTION

Version: Featured Products at EuroBLECH 2024 | Nitto EMEA



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SUSTAINABLE MATERIALS

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SURFACE PROTECTION TAPES

SPV 224PR-MJ

General description

SPV 224PR-MJ is a surface protection tape suitable to protect metal substrates during heavy mechanical processes. This tape consists of a blue translucent PVC-film coated with a special pressure sensitive acrylic-based adhesive. The tape complies with RoHS2 regulations.

Features

- Complies with RoHS2 regulations
- Prolonged outside exposure possible
- Excellent deformation behavior
- Good resistance against processing oils
- Recyclable

Application

SPV 224PR-MJ is an ideal solution for the protection of metals, such as stainless steel and aluminium, during heavy mechanical processes and protection of the finished material until the end of the supply chain.

Properties

	Typical value*	Test method
Film type	PVC film	
Adhesive type	Acrylic-based	
Total thickness	75 µm	EN 1942
Adhesion to BA steel	140 cN/20mm	EN 1939
Tensile strength MD**	65 N/20mm	EN 14410
Elongation MD**	240%	
Weatherability on BA steel***	750h	ISO 4892-2
Colour	Blue transparent Clear transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm

Lengths: 500 m and 750m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, this tape is immediately usable for further processing after lamination.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

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Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 225PR-MJ

General description

SPV 225PR-MJ is a surface protection tape suitable to protect metal substrates during heavy mechanical processes. This tape consists of a blue translucent PVC-film coated with a special pressure sensitive acrylic-based adhesive. The tape complies with RoHS2 regulations.

Features

- Complies with RoHS2 regulations
- Prolonged outside exposure possible
- Excellent deformation behavior
- Good resistance against processing oils
- Recyclable

Application

SPV 225PR-MJ is an ideal solution for the protection of metals, such as stainless steel and aluminium, during heavy mechanical processes and protection of the finished material until the end of the supply chain.

Properties

	Typical value*	Test method
Film type	PVC film	
Adhesive type	Acrylic-based	
Total thickness	75 µm	EN 1942
Adhesion to BA steel	160 cN/20mm	EN 1939
Tensile strength MD**	65 N/20mm	EN 14410
Elongation MD**	240%	
Weatherability on BA steel***	750h	ISO 4892-2
Colour	Blue transparent Clear transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm and 1500mm

Lengths: 500 m and 750 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, this tape is immediately usable for further processing after lamination.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

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- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 509H10P

General description

Nitto FIBERGUARD™ SPV 509H10P consists of a printed black and grey PE film with a special release layer, coated with a pressure sensitive natural rubber-based adhesive with a high adhesion level.

Features

- Laser cutting of stainless steel up to 3 mm
- No pre-cutting required
- No bubble-forming
- Functional print
- High adhesion
- Film with high mechanical strength
- Recyclable

Application

Nitto FIBERGUARD™ SPV 509H10P protects metal surfaces during both Fiber and CO₂ laser cutting processes. It is ideal for high speed and performance laser cutting machines.

Properties

	Typical value*	Test method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	100 µm	EN 1942
Adhesion to BA steel	340 cN/20mm	EN 1939
Tensile strength MD**	45 N/20mm	EN 14410
Elongation MD**	350%	
Weatherability on BA steel***	100 h	
Colour	Black and Grey with black printed arrows and Nitto brand name	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm and 1500 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- To reach the ideal adhesion level for laser cutting, it is recommended to wait 1 week after lamination.
- To avoid bubble forming, it is recommended to determine appropriate laser cutting conditions.
- This surface protection tape may contain fish eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV 509H10P is not recommended for use on substrates containing copper.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

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Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 511M80P

General description

Nitto FIBERGUARD™ SPV 511M80P consists of a printed black and grey PE film with a special release layer, coated with a pressure sensitive natural rubber-based adhesive with a medium adhesion level.

Features

- Laser cutting of stainless steel up to 2 mm
- No pre-cutting required
- No bubble-forming
- Functional print
- Medium adhesion
- Film with high mechanical strength
- Recyclable

Application

Nitto FIBERGUARD™ SPV 5011M80P protects metal surfaces during both Fiber and CO₂ laser cutting processes. It is ideal for high speed and performance laser cutting machines. The adhesion level is optimized to provide easier removal than FIBERGUARD™ SPV 509H10P.

Properties

	Typical value*	Test method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	80 µm	EN 1942
Adhesion to BA steel	170 cN/20mm	EN 1939
Tensile strength MD**	32 N/20mm	EN 14410
Elongation MD**	300%	
Weatherability on BA steel***	100 h	ISO 4892-2
Colour	Black and Grey with light blue printed arrows and Nitto brand name	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm and 1500 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- To reach the ideal adhesion level for laser cutting, it is recommended to wait 1 week after lamination.
- To avoid bubble forming, it is recommended to determine appropriate laser cutting conditions.
- This surface protection tape may contain fish eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV 511M80P is not recommended for use on substrates containing copper.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

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Product information

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Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 3067M

General description

SPV 3067M is a blue transparent PE film coated with a pressure sensitive natural rubber-based adhesive. The tape has a medium adhesion level and can protect the substrate till end of the supply-chain. The transparency of the film allows easy identification and inspection of the protected substrate.

Features

- Natural rubber based adhesive
- Medium adhesion level
- Substrate identification and inspection
- Recyclable

Application

SPV 3067M is used to protect metal surfaces, lacquered plates, plastics and laminates with smooth to slightly textured surfaces. The tape protects against scratches and impurities during storage, transport and light mechanical processes.

Properties

	Typical value*	Test method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	60 µm	EN 1942
Adhesion to BA steel	170 cN/20 mm	EN 1939
Tensile strength MD**	25 N/20 mm	EN 14410
Elongation MD**	250%	
Colour	Blue transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm and 2550 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, the tape is immediately usable for further processing after lamination.
- This surface protection tape may contain fish-eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV 3067M is not recommended for use on substrates containing copper.
- The tape is not designed for outdoor exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

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Product information

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 5057DD7

General description

SPV 5057DD7 is a surface protection tape suitable to protect high gloss and smooth brushed metals during light mechanical processes. This tape consists of a blue transparent PE-film coated with a pressure sensitive “easy-peel” acrylic-based adhesive.

Features

- Special “easy-peel” adhesive
- Zipper effect during peel-off
- Very low unwind
- High adhesion level
- Good humidity resistance
- Substrate identification and inspection
- Recyclable

Application

SPV 5057DD7 protects high gloss and smooth brushed metals during light mechanical processes against scratches and impurities. The use of SPV 5057DD7 in these processes gives the advantage of substantial reduction of lubricants and cleaning handlings, resulting in lower operational costs. The transparency of this tape allows easy identification and inspection of the protected substrates.

Properties

	Typical value*	Test method
Film type	PE film	
Adhesive type	Acrylic-based	
Total thickness	50 µm	EN 1942
Adhesion to BA steel	150 cN/20mm	EN 1939
Tensile strength MD**	22 N/20mm	EN 14410
Elongation MD**	250%	
Weatherability on BA steel***	75h	ISO 4892-2
Colour	Blue transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm and 2500 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, this tape is immediately usable for further processing after lamination.
- Longer storage time of applied material should be avoided due to increase of adhesion.
- This tape is not designed for prolonged outside exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 6055L3 HP

General description

SPV 6055L3 HP is a surface protection tape suitable to protect high gloss stainless steel during mechanical processing, such as deep drawing, bending and punching. This product consists of a blue transparent PO-film coated with a special pressure sensitive “easy-peel” emulsion-based acrylic adhesive.

Features

- Emulsion-based
- Low unwind force for easy lamination
- Stable adhesion force for long storage time
- Low adhesion level ideal for high gloss stainless steel
- Excellent tear-resistance film for good deformation behavior
- “Easy-peel” adhesive for fast removability
- Recyclable

Application

SPV 6055L3 HP is an ideal product for protecting high gloss stainless steel during mechanical processes, such as deep drawing, bending and punching. The product is especially designed for full automated process lines where high output is a standard. It performs as a real problem solver for very difficult and complex shapes. A specially designed High Performance (HP) PO film guarantees good tear resistance in both machine and cross direction, which leads to very minor film burrs during processing. The transparency of this tape allows easy identification and inspection of the protected substrate. The tape features a stable adhesion force over time, ensuring consistency during deformation as well during peel-off at the end of the process. This adhesion stability has a big advantage for steel service centers where long storage times can occur. Furthermore, the emulsion-based adhesive will not create staining on the steel surface.

Properties

	Typical value*	Test method
Film type	PO film	
Adhesive type	Acrylic-based	
Total thickness	55 µm	EN 1942
Adhesion to BA steel	55 cN/20mm	EN 1939
Tensile strength MD** Tensile strength CD**	35 N/20mm 25 N/20mm	EN 14410
Elongation MD** Elongation CD**	550% 650%	
Colour	Blue transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction, CD = Cross Direction.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: max 1500 mm

Lengths: 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, this tape is immediately usable for further processing after lamination.
- This tape is not designed for prolonged outside exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 6065E5 HP – SPV 6065E7 HP – SPV 6069E7 HP – SPV 6065E9 HP

General description

The SPV 6065E HP series are surface protection tapes suitable to protect high gloss to matt and brushed metal, during mechanical processes such as deep drawing and profiling. These products consist of a special tear resistant “High Performance” PO film coated with a pressure sensitive “easy peel” acrylic-based adhesive with medium (E5), high (E7) and very high (E9) adhesion level.

Features

- Easy-peel removability
- Very low unwind
- Very good deformation behaviour
- High tear resistance in all directions (High Performance PO film)
- Good humidity and oil resistance
- Substrate identification and inspection
- Recyclable

Application

SPV 6065E HP series protect the substrate during mechanical processing against scratches and impurities. They are available in 3 adhesion levels: medium (E5) for high gloss metals, high (E7) for matt metals and very high (E9) for brushed metals, such as stainless steel and aluminum.

Properties

	Typical value*	Test method
Film type	Tear resistant PO film	
Adhesive type	Acrylic-based	
Total thickness	60 µm	EN 1942
Adhesion to BA steel	SPV 6065E5 HP: 200 cN/20mm SPV 6065E7 HP: 300 cN/20mm SPV 6069E7 HP: 300 cN/20mm SPV 6065E9 HP: 400 cN/20mm	EN 1939
Tensile strength MD**	40 N/20mm	EN 14410
Elongation MD**	600%	
Colour	SPV 6065E5 HP: blue transparent SPV 6065E7 HP: blue transparent SPV 6069E7 HP: green transparent SPV 6065E9 HP: blue transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm and 2000 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- If the substrate is stainless steel that has been treated with a grinding or polishing machine, it is advisable to wait at least 1 day before laminating the surface protection tape. This is necessary to ensure the correct build-up of the self-healing passive layer. Immediate lamination after grinding or polishing can lead to difficult removability of the surface protection tape.
- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- It is recommended to perform further processing after a lamination period of 1 week.
- In general, the tape is immediately usable for further processing after lamination.
- This tape is not recommended to be used in heavy forming processes.
- SPV 6065E HP series cannot be used on lacquers containing softeners (such as PVC lacquers).
- The tape is not designed for prolonged outside exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 9205

General description

SPV 9205 is a surface protection tape suitable to protect high gloss metals during mechanical processes such as deep drawing and profiling. This product consists of a blue transparent PE film coated with a pressure sensitive “easy-peel” acrylic-based adhesive.

Features

- Easy-peel removability
- High adhesion level
- Very low unwind
- Very good deformation behaviour
- Good humidity resistance
- Substrate identification and inspection
- For protection of high gloss surfaces
- Recyclable

Application

SPV 9205 protects high-gloss substrates such as aluminum, copper and stainless steel from scratches and impurities during mechanical processing. The use of this tape allows the protected surfaces to be processed with a high level of adhesion while the removability requires a minimum peel force. The advantage of using SPV 9205 in these processes is a significant reduction in lubricants and cleaning operations, resulting in lower operating costs.

Properties

	Typical value*	Test method
Film type	PE film	
Adhesive type	Acrylic-based	
Total thickness	60 µm	EN 1942
Adhesion to BA steel	200 cN/20mm	EN 1939
Tensile strength MD**	25 N/20mm	EN 14410
Elongation MD**	250%	
Colour	Blue transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500mm and 2000 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- If the substrate concerns stainless steel, which is treated by a grinding or polishing machine, it is advisable to wait at least 1 day before laminating the surface protection tape. This is necessary to ensure the correct build-up of the self-healing passive layer. Immediate lamination after polishing can lead to difficult removability of the surface protection tape.
- This tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- It is recommended to perform further processing after a lamination period of about 1 week.
- SPV 9205 is not designed for outside exposure.
- This tape is not meant for permanent protection, it is advisable to remove the tape after the mechanical processes.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV 30804T/TP

General description

SPV 30804T/TP consists of a black and white PE film, coated with a pressure sensitive rubber-based adhesive with a medium adhesion level. SPV 30804T/TP is also available in printed version with blue lines and arrows which allow you to install your substrate in the appropriate direction.

Features

- Medium adhesion level
- Recyclable

Application

SPV 30804T/TP is suitable to protect metal (e.g. stainless steel and anodized aluminum) and plastic (e.g. PMMA, Polystyrene, PVC and PC) till the end of the supply chain against scratches and impurities during various mechanical processes (e.g. bending, stamping and forming). These tapes have enough oil resistance and are therefore usable to protect metals after milling operations.

Properties

	Typical value*	Test method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	75 µm	EN 1942
Adhesion to BA steel	100 cN/20mm	EN 1939
Tensile strength MD**	30 N/20mm	EN 14410
Elongation MD**	250%	
Weatherability on BA steel***	250 h	ISO 4892-2
Colour	Black and White	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm and 1500 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, the tape is immediately usable for further processing after lamination.
- This surface protection tape may contain fish eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV 30804T/TP is not recommended for use on substrates containing copper.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV AFP-585 – SPV AFP-853

General description

The SPV AFP-series are surface protection tapes suitable to protect anti-fingerprint coated metals during mechanical processes, storage and transport. These products consist of a PE film coated with a pressure sensitive acrylic-based adhesive (AFP-585) or PO film coated with a pressure sensitive rubber-based adhesive (AFP-853).

Features

- Good oil resistance (AFP-853)
- Good deformation behaviour
- Tear resistant PO-film (AFP-853)
- Air-bubble free adhesive
- Good humidity resistance
- Substrate identification and inspection
- Recyclable

Application

SPV AFP-series are ideal products to protect anti-fingerprint coated metals against scratches and impurities during storage, transport and mechanical processes such as bending, punching, light and severe deformations. SPV AFP-853 has a rubber-based adhesive which gives a medium adhesion level. The PO film gives good elongation properties, which makes the tape suitable for processes like bending and punching. SPV AFP-585 has an acrylic-based adhesive with an “easy peel” behaviour, which shows a low unwind and tension during lamination and easy removability from the protected surface. It has an air-bubble free adhesive, which makes this product suitable for the protection of more critical, glossy surfaces where high esthetical appearance is required.

Properties

	AFP-585	AFP-853	Test method
Film type	PE film	PO film	
Adhesive type	Acrylic-based	Rubber-based	
Total thickness	50 µm	80 µm	EN 1942
Adhesion to BA steel	120 cN/20mm	110 cN/20mm	EN 1939
Tensile strength MD*	22 N/20mm	25 N/20mm	EN 14410
Elongation MD*	250%	250%	
Weatherability on BA steel**	25h	40h	ISO 4892-2
Colour	Clear transparent	Blue transparent	

CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

*MD = Machine Direction

**The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm

Lengths: 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, SPV AFP-series are immediately usable for further processing after lamination.
- SPV AFP-series are not designed for prolonged outside exposure, although they have limited UV resistance.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV A-SERIES: SPV 5057A5 – SPV 5057A5F – SPV 5058A5 – SPV 5058A5F – SPV 5058A7 – SPV 5059A7 – SPV 5057A9

General description

The SPV A-series are surface protection tapes suitable to protect high gloss, matt and rougher surfaces during mechanical processes, storage and transportation. These products consist of a PE film coated with a pressure sensitive “easy-peel” acrylic-based adhesive. They are available in various colours and adhesion levels.

Features

- Special “easy-peel” adhesive
- Zipper effect during peel-off
- Very low unwind
- Available in 3 different adhesion levels and colours
- Good humidity resistance
- High transparency
- Substrate identification and inspection
- Recyclable

Application

SPV A-series protect the substrate till the end of the supply chain against scratches and impurities. Substrates involved can be lacquered plates, plastics, glass, laminates and reflective aluminum. These tapes are available in 3 different adhesion levels: medium (A5), high (A7) and very high (A9). A5-types are recommended to protect high gloss finishes, where A7 and A9-types are more suitable for low gloss and rougher appearing surfaces. It requires only a minimal peeling force to remove these tapes easily from the protected surface. This peeling force will decrease in function of the removal speed. SPV 5057A5F and SPV 5058A5F are special treated versions of SPV 5057A5 and SPV 5058A5, with superior transparency.

Properties

	A5 type	A7 type	A9 type	Test method
Film type	PE film	PE film	PE film	
Adhesive type	Acrylic-based	Acrylic-based	Acrylic-based	
Total thickness	50 µm	50 µm	50 µm	EN 1942
Adhesion to BA steel	70 cN/20mm	150 cN/20mm	300 cN/20mm	EN 1939
Tensile strength MD*	22 N/20mm	22 N/20mm	22 N/20mm	EN 14410
Elongation MD*	250%	250%	250%	
Weatherability on BA steel**	75h	75h	0h	ISO 4892-2
Colour	Blue transparent: 5057A5, 5057A5F, 5057A9 Clear transparent: 5058A5, 5058A5F, 5058A7 Green transparent: 5059A7			

CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification. *MD = Machine Direction. **The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm, 2000 mm* and 2500 mm* (* not applicable for SPV 5057A5F/5058A5F)

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The tapes should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, these tapes are immediately usable for further processing after lamination.
- SPV A-series cannot be used on lacquers containing softeners (such as PVC lacquers).
- SPV A-series are not designed for prolonged outside exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

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Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV S509H10P

General description

Nitto FIBERGUARD™ SPV S509H10P consists of a printed black and grey PE film with a special release layer, coated with a pressure sensitive natural rubber-based adhesive with a high adhesion level. The film contains 30% bio-circular content. SPV S509H10P contributes to 30% bio-circular content certified by the ISCC mass balance approach.

Features

- Contributes to 30% bio-circular content
- Laser cutting of stainless steel up to 3 mm
- No pre-cutting required
- No bubble-forming
- Functional print
- High adhesion
- Film with high mechanical strength
- Recyclable

Application

Nitto FIBERGUARD™ SPV S509H10P protects metal surfaces during both Fiber and CO₂ laser cutting processes. It is ideal for high speed and performance laser cutting machines.

Properties

	Typical Value*	Test Method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	100 µm	EN 1942
Adhesion to BA steel	340 cN/20 mm	EN 1939
Tensile strength MD**	45 N/20 mm	EN 14410
Weatherability on BA steel***	100 h	ISO 4892-2
Elongation MD**	350%	EN 14410
Colour	Black and Grey	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm and 1500 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage & transport conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The sustainable protection tape should be applied to clean and dry surfaces by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15°C and 40°C.

Application guidelines

- To reach the ideal adhesion level for laser cutting, it is recommended to wait 1 week after lamination.
- To avoid bubble forming, it is recommended to determine appropriate laser cutting conditions.
- This surface protection tape may contain fish eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV S509H10P is not recommended for use on substrates containing copper.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV S3067M

General description

SPV S3067M is a blue transparent PE film coated with a pressure sensitive natural rubber-based adhesive. The tape has a medium adhesion level and can protect the substrate till end of the supply-chain. The transparency of the film allows easy identification and inspection of the substrate. SPV S3067M contributes to 30% bio-circular content certified by the ISCC mass balance approach.

Features

- Contributes to 30% bio-circular content
- Natural rubber based adhesive
- Medium adhesion level
- Substrate identification and inspection
- Recyclable

Application

SPV S3067M is used to protect metal surfaces, lacquered plates, plastics and laminates with smooth to slightly textured surfaces. The tape protects against scratches and impurities during storage, transport and light mechanical processes.

Properties

	Typical Value*	Test Method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	60 µm	EN 1942
Adhesion to BA steel	170 cN/20 mm	EN 1939
Tensile strength MD**	25 N/20 mm	EN 14410
Elongation MD**	250%	
Colour	Blue translucent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500 mm and 2550 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The sustainable protection tape should be applied to clean and dry surfaces by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15°C and 40°C.

Application guidelines

- In general, the tape is immediately usable for further processing after lamination.
- This surface protection tape may contain fish-eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV S3067M is not recommended for use on substrates containing copper.
- The tape is not designed for outdoor exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV S9205

General description

SPV S9205 is a surface protection tape suitable to protect high gloss metals during mechanical processes such as deep drawing and profiling. This product consists of a blue transparent PE film coated with a pressure sensitive “easy-peel” acrylic-based adhesive. SPV S9205 contributes to 30% bio-circular content certified by the ISCC mass balance approach.

Features

- Contributes to 30% Bio-circular content
- Easy-peel removability
- High adhesion level
- Very low unwind
- Very good deformation behaviour
- Good humidity resistance
- Substrate identification and inspection
- For protection of high gloss surfaces
- Recyclable

Application

SPV S9205 protects high-gloss substrates such as aluminum, copper and stainless steel from scratches and impurities during mechanical processing. The use of this tape allows the protected surfaces to be processed with a high level of adhesion while the removability requires a minimum peel force.

The advantage of using SPV S9205 in these processes is a significant reduction in lubricants and cleaning operations, resulting in lower operating costs.

Properties

	Typical Value*	Test Method
Film type	PE film	
Adhesive type	Acrylic-based	
Total thickness	60 µm	EN 1942
Adhesion to BA steel	200 cN/20 mm	EN 1939
Tensile strength MD**	25 N/20 mm	EN 14410
Elongation MD**	250%	
Colour	Blue transparent	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

** MD = Machine Direction

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm, 1500mm and 2000 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage conditions

Recommended transport and storage conditions: between 15 °C and 30 °C and between 40% and 75% relative humidity (RH).

Lamination guidelines

- If the substrate concerns stainless steel, which is treated by a grinding or polishing machine, it is advisable to wait at least 1 day before laminating the surface protection tape. This is necessary to ensure the correct build-up of the self-healing passive layer. Immediate lamination after polishing can lead to difficult removability of the surface protection tape.
- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C

Application guidelines

- It is recommended to perform further processing after a lamination period of about 1 week.
- SPV S9205 is not designed for outside exposure.
- This tape is not meant for permanent protection, it is advisable to remove the tape after the mechanical processes.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV S30804T/TP

General description

SPV S30804T/TP consists of a black and white PE film, coated with a pressure sensitive rubber-based adhesive with a medium adhesion level. The film contains 30% bio-circular content. SPV S30804T/TP is also available in printed version with blue lines and arrows which allow you to install your substrate in the appropriate direction. SPV S30804T/TP contributes to 30% bio-circular content certified by the ISCC mass balance approach.

Features

- Contributes to 30% bio-circular content
- Medium adhesion level
- Recyclable

Application

SPV S30804T/TP is suitable to protect metal (e.g. stainless steel and anodized aluminum) and plastic (e.g. PMMA, Polystyrene, PVC and PC) till the end of the supply chain against scratches and impurities during various mechanical processes (e.g. bending, stamping and forming). These tapes have enough oil resistance and are therefore usable to protect metals after milling operations.

Properties

	Typical Value*	Test Method
Film type	PE film	
Adhesive type	Rubber-based	
Total thickness	75 µm	EN 1942
Adhesion to BA steel	100 cN/20 mm	EN 1939
Tensile strength MD**	30 N/20 mm	EN 14410
Weatherability on BA steel***	250 h	ISO 4892-2
Elongation MD**	250%	EN 14410
Colour	Black and White	

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

Availability

Widths: 1000 mm, 1250 mm and 1500 mm

Lengths: 500 m and 1000 m

Please contact us for specific dimensions.

Storage & transport conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The sustainable protection tape should be applied to clean and dry surfaces by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15°C and 40°C.

Application guidelines

- In general, the tape is immediately usable for further processing after lamination.
- This surface protection tape may contain fish eyes and gels. It is not recommended to use this tape for heavy forming processes due to the risk of visual imprints on the substrates.
- SPV S30804T/TP is not recommended for use on substrates containing copper.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

Except for its willful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits. The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

Product information

This datasheet provides a general description of the product properties and application scope.

Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

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Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001

SURFACE PROTECTION TAPES

SPV SCGP-572

General description

SPV SCGP-572 is a surface protection tape suitable to protect heat treatable coatings on jumbo glass substrates immediately after coating, during storage, transportation and converting. The product consists of a PE film coated with a pressure sensitive acrylic-based adhesive. SPV SCGP-572 contributes to 30% bio-circular content certified by the ISCC mass balance approach.

Features

- Contributes to 30% of bio-circular material
- stable adhesion
- Medium adhesion level
- transparency for substrate inspection
- easy removability
- good humidity resistance
- recyclable

Application

SPV SCGP-572 protects the heat treatable coatings on glass against mechanical damages, fingerprints, and environmental influences (e.g. humidity, corrosion) during storage, transportation and converting. The stable adhesion strength and a good humidity resistance, makes these products suitable to protect coated glass during complete process chain of handling, washing, grinding, cutting and hole drilling. SCGP-572 has a medium adhesion level. The product is easy to peel as the adhesion strength drops instantly to a very low-level during removal from jumbo glass sheets without damaging the sensitive coating.

Properties

	Typical value*	Test Method
Film type	PE film	
Adhesive type	Acrylic-based	
Total thickness	50 µm	EN 1942
Adhesion to BA steel	150 cN/20 mm	EN 1939
Tensile strength MD**	22 N/20 mm	EN 14410
Weatherability on BA steel***	75h	ISO 4892-2
Elongation MD**	250%	EN 14410
Color	Green transparent	

*CAUTION: The above are typical values and should not be used in writing specifications.

**MD = Machine Direction

***The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different. Details from the test methods are described on the customer product specification.

SURFACE PROTECTION TAPES

Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Widths: up to 3300 mm

Lengths: 500 m, 1000 m and 3000 m

Please contact us for specific dimensions

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Lamination guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine the appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- In general, the tape is immediately usable for further processing after lamination.
- This tape is not recommended to be use in heavy forming processes.
- SPV SCGP-572 cannot be used on lacquers containing softeners (such as PVC lacquers).
- The tape is not designed for prolonged outside exposure.
- Surface protection tapes are not meant for permanent protection, they should be removed at the end of the supply chain.

SURFACE PROTECTION TAPES

General conditions of use and precautions

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

Packaging, transport and storage

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

Liability

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Product information

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- ISO 45001