

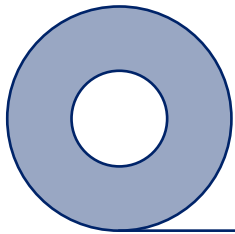
Product: **SPV 9300 series**

Product group: **Surface Protection Tapes**

General description

SPV 9300 series are surface protection tapes suitable to protect rough and textured surfaces during light mechanical processes, storage and transportation. These tapes consist of a special PE film coated with a pressure sensitive acrylic-based adhesive.

Construction



- Pressure sensitive acrylic-based adhesive
- PE film*

* SPV 9310: Clear transparent
SPV 9311: Blue transparent
SPV 9320: Clear transparent

Characteristics

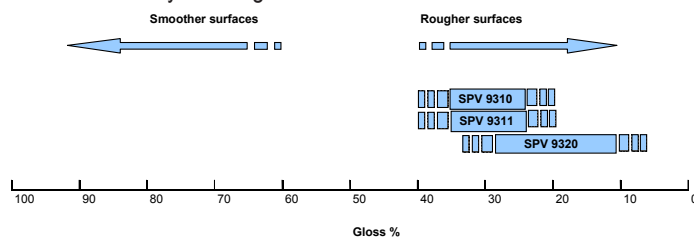
SPV 9300 series protect the substrate till the end of the supply chain against scratches and impurities. The pressure sensitive acrylic-based adhesive gives a very high adhesion level and makes it ideal for protection of surfaces with a gloss level between 10 to 35%.

These tapes are available in 2 different adhesion levels: SPV 9320 has a higher adhesion level than SPV 9310 and SPV 9311. The pressure sensitive acrylic-based adhesive has a good humidity resistance and shows good wetting behaviour during application. The transparency of these tapes allow easy identification and inspection of the protected substrates.

To prevent excessive stretching during unwinding and lamination, a special high modulus film is used. This results in a good adhering performance to rough surfaces.

Application

SPV 9300 series are ideal products to protect low gloss surfaces, like rough plastics and laminates. Furthermore it's a perfect solution for rough and textured PVDF, PUR and polyester lacquered substrates. These tapes cover gloss levels varying from 10% to 35%. Typical gloss levels are as mentioned in following table. The selection of the suitable type according to the gloss can be influenced by the roughness of the substrate.



Features

- rough surface protection
- low gloss surface protection (10 to 35%)
- very high adhesion level
- good wetting behaviour
- good humidity resistance
- substrate identification and inspection
- stretching resistance film
- recyclable

Properties

	Typical Value	Test Method
Film type	Modified PE film	
Adhesive type	Acrylic-based	
Total thickness	70 µm	EN 1942
Adhesion on BA steel	SPV 9310/9311: 320 cN/20 mm SPV 9320: 430 cN/20 mm	EN 1939
Weatherability on BA steel*	SPV 9310/9311: 25 h SPV 9320: None	ISO 4892-2
Tensile strength MD**	25 N/20 mm	EN 14410
Elongation MD	250 %	EN 14410
Colour	SPV 9310/9320: Clear transparent SPV 9311: Blue transparent	
Transport and storage conditions	Temperature 15 to 30 °C Relative humidity 40 to 75% RH	

Details from the test methods are described on the customer product specification.

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

** MD = Machine Direction

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: 200 m and 500 m

Please contact us for specific dimensions.

Lamination guidelines

- The tapes should be applied to clean and dry surface by automatic mechanical means.
- In order 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.
- These tapes are not recommended to be used in heavy forming processes.
- SPV 9300 Series cannot be used on stainless steel, neither on lacquers containing softeners (such as PVC lacquers).
- The tapes 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.

If you require additional information on technical properties and application as well as product sampling or testing, please contact your local Nitto Europe sales office.

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 wilful misconduct, Nitto Europe'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 Europe has assisted in any manner with the selection, treatment or application of the product.

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.

Edition: April 2009
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This datasheet replaces all previous versions

Nitto Europe NV has obtained following certificates:

- ISO 9001
 - ISO 14001
 - ISO/TS 16949
- Please check our website for applicable scope