Product: SPV 224LB-PE
Product group: Surface Protection Tapes

General description

SPV 224LB-PE is a surface protection tape with a unique deformation behaviour. This product consists of a blue transparent PVC film coated with a pressure sensitive acrylic-based adhesive. For easy unwind, the backing of the PVC-film is coated with a special modified silicone release.

Construction

<table>
<thead>
<tr>
<th>Features</th>
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<tbody>
<tr>
<td>- Pressure sensitive acrylic-based adhesive</td>
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<tr>
<td>- Unique blue transparent PVC film</td>
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<td>- Modified silicone release coating</td>
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Characteristics

The combination of the PVC film with the acrylic adhesive allows an excellent deformation behaviour during deep drawing processes. The PVC film in combination with the modified silicone release coating, offers good lubrication during deep drawing, resulting in a substantial reduction of lubricants. Furthermore the release coating allows easier metal sheet separation after stacking, especially in case when both sides are protected. The tape has enough oil resistance and is therefore usable to protect metals after milling operations. The transparency of SPV 224LB-PE allows easy identification and inspection of the protected substrates.

Application

SPV 224LB-PE is suitable for the protection of stainless steel, glass, aluminium and nameplates during processing, transport and storage. SPV 224LB-PE is an ideal product to be used on metal surfaces during severe mechanical processes such as deep drawing, profiling or bending. The unique composition of the product makes it possible to protect the substrate through the complete process from deep drawing (single & multi-step) till the end-user.
Properties

<table>
<thead>
<tr>
<th></th>
<th>Typical Value</th>
<th>Test Method</th>
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<tbody>
<tr>
<td>Film type</td>
<td>Unique PVC film</td>
<td></td>
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<tr>
<td>Adhesive type</td>
<td>Acrylic-based</td>
<td></td>
</tr>
<tr>
<td>Total thickness</td>
<td>75 µm / 3.0 mils</td>
<td>EN 1942</td>
</tr>
<tr>
<td>Adhesion on BA steel</td>
<td>110 cN/20 mm / 5.0 oz/in</td>
<td>EN 1939</td>
</tr>
<tr>
<td>Weatherability on BA steel*</td>
<td>50 hours</td>
<td>ISO 4892-2</td>
</tr>
<tr>
<td>Tensile strength MD**</td>
<td>50 N/20 mm / 14.0 lbs/in</td>
<td>EN 14410</td>
</tr>
<tr>
<td>Elongation MD</td>
<td>280 %</td>
<td>EN 14410</td>
</tr>
<tr>
<td>Transport and storage conditions</td>
<td>Temperature 15 to 30°C / 60 to 86°F</td>
<td>Relative humidity 40 to 75% RH</td>
</tr>
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</table>

* 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: 36", 48", 1250 mm
Lengths: 1650 ft, 500 m
Please contact us for specific dimensions

Lamination guidelines

- The tape 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 on its ‘cut to length line’.
- The best lamination conditions are obtained at a temperature between 15°C and 40°C (60°F to 100°F).

Application guidelines

- In order to reach the ideal adhesion level for processing, it is advisable to wait a few days after lamination.
- It is not advisable to use SPV 224LB-PE on substrates containing copper.
- The tape cannot be used on lacquered and PVC substrates.
- There is a possibility of minor silicone transfer under certain processing and storage conditions.
- SPV 224LB-PE cannot be used for 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 assume 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.

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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

For your local Nitto Europe sales office, please visit our web site:

www.nittoeurope.com

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