

tesa® 7140

Product Information



Flange masking tape in the automotive industry

Product Description

tesa® 7140 PV3 consists of a laminate of PVC film with a PET film. It combines the preferred features of both materials: The PVC film ensures high paint adhesion to the backing and increases the flexibility of the tape, while the use of the PET layer results in a high tensile strength. These properties are important in the automotive industry, as they allow the masking of window flange areas prior to paint processes, thus eliminating the need for additional surface treatment steps (such as primer) during the application of the window panes. Instead, the window pane can be directly bonded to the e-coated window flange area.

The high temperature resistance of up to 170°C ensures that the tape works in most oven and baking processes in automotive paint shops. tesa® 7140 PV3 can be applied manually, semi-manually (hand applicators), or completely automatically (robot dispensers).

Product Features

- PET layer allows smooth demasking without the tape tearing
- PVC layer for high paint adhesion to avoid overspray in window flange areas
- High temperature resistance up to 170°C/1h for most paint shop processes
- tesa® 7140 PV3 is highly compatible with all relevant e-coats/fillers and window glues.

Application Fields

tesa® 7140 PV3 is suitable for window flange masking in the automotive industry (e.g. windshield, sunroof).

Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

Product Construction

- | | | | |
|--------------------|----------------|-------------------|--------|
| • Backing material | PVC film | • Total thickness | 181 µm |
| • Type of adhesive | natural rubber | | |

Properties/Performance Values

- | | | | |
|--------------------|----------|-----------------------------------|--------|
| • Tensile strength | 140 N/cm | • Sharp colour edge | yes |
| • Easy to remove | yes | • Suitable for die cutting | yes |
| • Paint anchorage | yes | • Temperature resistance (30 min) | 170 °C |

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Adhesion to Values

- steel 4 N/cm

Additional Information

The product design of tesa[®] 7140 PV3 allows convenient application both by hand and robot and is also suitable for converting and die-cutting. In case of fully automatic applications the best-before-date for spools is max. 12 months under recommended storage conditions.

Disclaimer

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