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General Purpose Polyester/Silicone Tape

8951

Technical Data

March, 2009

Product Description

3M™ General Purpose Polyester/Silicone Tape 8951 is a polyester tape with a silicone adhesive designed for high temperature applications. Specifically, it is used to break flash in composite bonding as well as splicing silicone and non-silicone coated papers and films.

Product Construction

Backing	Adhesive	Colors	Standard Roll Length
Polyester	Silicone	Blue, Red	72 yds. (66 m)

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

		ASTM Test Method
Adhesion to Steel:	34 oz./in. width (37 N/100 mm)	D-3330
Tensile Strength at Break	26 lbs./in. width (440 N/100 mm)	D-3759
Elongation at Break:	120%	D-3759
Backing Thickness:	0.9 mil (0.02 mm)	D-3652
Total Tape Thickness:	2.6 mils (0.06 mm)	D-3652
Temperature Use Range:	Up to 425°F (218°C)	

Features

- Designed to provide clean removal during masking operations involving high temperatures and pressure.
- Polyester film retains flexibility and thermal resistance to help reduce failures due to cracking.
- Abrasion, chemical and thermal resistance to help reduce failures due to backing deterioration.
- Silicone adhesive helps reduce failure due to softening, oozing, and adhesive transfer.
- Masking edges of overlap seams in metal bonding process where excess epoxy (flash) flows onto tape as clean-up is complete upon tape removal.
- Removes cleanly from stainless steel, anodized aluminum and glass after a four-hour bake cycle at 350°F (177°C).

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Application Ideas

- Holding parts or vacuum bags during bonding process.
- Splicing silicone treated materials, including paper, liners and films.
- One hour photo lab splicing tape.
- Electrical insulation tape.
- Circuit board masking.
- Masking parts in an anodizing process.

Storage

Store under normal conditions of 60° to 80°F (15° to 27°C) and 40 to 50% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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