



Technical Data Sheet

3M™ Polyimide Tape 8997



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Polyimide Tape 8997 is an amber colored polyimide tape with silicone pressure sensitive adhesive. Tape construction is ideal for applications that may require high temperature, chemical, and abrasion resistance with the benefit of transparency.

Product Features

- Polyimide films offer excellent thermal, abrasion, and chemical resistance while maintaining their flexibility.
- Amber color makes tape placement obvious for both application and removal.
- Thin backing leaves a sharp paint line and some conformability.
- Silicone adhesives offer high heat resistance compared to many rubber and acrylic adhesives, reducing failure due to softening, oozing, and adhesive transfer.
- Silicone adhesive removes cleanly from many surfaces.
- Lined version available for die-cuts.

Technical Information Note

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

Typical Physical Properties

Attribute Name	Test Method	Value
Color		Amber
Adhesive Type		Silicone
Backing		Polyimide
Backing Thickness	ASTM D3652	0.025 mm (1.0 mil)
Total Tape Thickness	ASTM D3652	0.057 mm (2.2 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Dwell Time	Temperature	Substrate	Backing	Value
180° Peel Adhesion	ASTM D3330	72 h	22 °C (72 °F)	Stainless Steel	2 mil PET	2.4 N/cm (22 oz/in) ¹
Elongation at Break	ASTM D3759					37 %
Tensile Strength	ASTM D3759					45 N/cm (26 lb/in)

¹ 12 in/min (300 mm/min)

Attribute Name	Value
Short Term Temperature Resistance	260 °C (500 °F) ¹

¹ Short Term (minutes, hour)

Handling/Application Information

Application Examples

- Masking parts for powder coat painting.
- Masking edges of overlap seams in metal bonding process where excess adhesive flows onto tape. Minimizes clean-up on tape removal.
- Provides a good barrier for separation of dissimilar metals.

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	33 m (36 yd)

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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