

PTFE Glass Cloth Tape

5453

Technical Data

April, 1996

Product Description A woven glass cloth impregnated with PTFE (polytetrafluoroethylene) and a silicone adhesive which provides a high temperature release surface for protection and insulation.

Construction	Backing	Adhesive	Color	Standard Roll Length
	Woven glass cloth impregnated with PTFE	Silicone	Brown	36 yds. (33 m)

Typical Physical Properties and Performance Characteristics

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:	55 oz./in width (56.1 N/100 mm)	D-3330
Tensile Strength at Break:	172 lbs./in. width (3012 N/100 mm)	D-3759
Backing Thickness:	5.9 mils (.149 mm)	D-3652
Total Tape Thickness:	8.3 mils (.210 mm)	D-3652
Temperature Use Range:	-100°F to 400°F (-73°C to 204°C)	

General Information

- Moisture absorption is close to zero, allowing tape 5453 to perform in many humid environments.
- The reinforcement provided by the woven glass cloth fabric base adds tensile strength and resistance to tear and puncture in comparison to typical PTFE film backed tapes.

CAUTION: When PTFE film tape is exposed to temperatures above 750°F (400°C), small quantities of hazardous vapors may be released. INHALATION OF THESE VAPORS MAY BE HARMFUL OR MAY CAUSE RESPIRATORY TRACT IRRITATION. Do not heat or expose PTFE film tape to temperatures above 750°F (400°C).

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Application Ideas

- Easy release surface on packaging and heat sealing machines, ironing and pressing equipment.
- Release surface on metal bonding tools.
- Lining conveying chutes, troughs and ducts.
- Covering rollers, drums, turnbars and formers on stitchers, binders and other process machinery.

Features

- Thick glass cloth backing
- Thick PTFE coating
- Silicone adhesive

Advantages

- Long wear life
- High impact and puncture resistance
- Excellent tensile and tear strength
- Good heat transfer
- Exceptionally smooth surface
- Provides non-stick, low friction surface
- Resists most chemicals and corrosive action of most solvents, salts, acids
- High temperature performance
- Long aging

Benefits

- Helps increase productivity
- Helps prolong life of parts, tools and equipment
- Helps reduce heat consumption
- Helps save clean-up time, long lasting
- Helps protect surfaces
- Helps prolong parts and equipment life
- Helps increase productivity

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-2180.

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ISO 9002

This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



Industrial Tape and Specialties Division

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