3M PTFE Glass Cloth Tape

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Product Description

3MTM PTFE Glass Cloth Tape 5451 and 5453 has a silicone adhesive which provides a high temperature release surface for protection and insulation.

Product Construction

Backing	Adhesive	Color	Standard Roll Length
Woven glass cloth impregnated with PTFE (polytetrafluoroethylene)	Silicone	Brown	36 yds. (32.9 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
3M tape 5451		
Adhesion to Steel:	28 oz./in. width (30.6 N/100 mm)	D-3330
Tensile Strength:	100 lbs./in. width (1760 N/100 mm)	D-3759
Backing Thickness:	3.2 mils (0.08 mm)	D-3652
Total Tape Thickness:	5.6 mils (0.14 mm)	D-3652
Temperature Use Range:	-100° to 400°F (-73° to 204°C)	
3M tape 5453		
Adhesion to Steel:	55 oz./in. width (56 N/100 mm)	D-3330
Tensile Strength:	175 lbs./in. width (3065 N/100 mm)	D-3759
Backing Thickness:	6.0 mils (0.15 mm)	D-3652
Total Tape Thickness:	8.2 mils (0.21 mm)	D-3652
Temperature Use Range:	-100° to 400°F (-73° to 204°C)	

Features

- Moisture absorption is close to zero, allowing performance 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 400°F (204°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 400°F (204°C).

3M[™] PTFE Glass Cloth Tape

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Application Ideas

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

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

Shelf Life

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

Product Use

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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Industrial Adhesives and Tapes Division 3M Center, Building 21-1W-10, 900 Bush Avenue St. Paul, MN 55144-1000 800-362-3550 • 877-369-2923 (fax)

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