3M

PTFE Glass Cloth Tape

5451 • 5453

Product Description

3M™ 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 500°F (-73° to 260°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 500°F (-73° to 260°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 600°F (316°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 600°F (316°C).

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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 24 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.

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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Recycled Paper
40% pre-consumer
10% post-consumer