



General Purpose PTFE Glass Cloth Tape

5151 • 5153

Technical Data

Product Description

An easy unwind glass cloth tape impregnated with PTFE (polytetrafluoroethylene) and coated with a silicone adhesive which provides high temperature resistance and a very strong, abrasion-resistant backing.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Woven glass cloth impregnated with PTFE	Silicone	Light 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
Tape 5151		
Adhesion to Steel:	30 oz./in. width (33 N/100 mm)	D-3330
Tensile Strength:	100 lbs./in. width (1760 N/100 mm)	D-3759
Backing Thickness:	3 mils (0.08 mm)	D-3652
Total Tape Thickness:	4.5 mils (0.11 mm)	D-3652
Temperature Use Range:	-100° to 400°F (-73° to 204°C)	
Tape 5153		
Adhesion to Steel:	35 oz./in. width (38 N/100 mm)	D-3330
Tensile Strength:	150 lbs./in. width (2600 N/100 mm)	D-3759
Backing Thickness:	5.3 mils (0.13 mm)	D-3652
Total Tape Thickness:	6.8 mils (0.17 mm)	D-3652
Temperature Use Range:	-100° to 400°F (-73° to 204°C)	

General Information

- Very low moisture absorption allows the tapes to perform in many humid environments.
- Provides greater tensile strength and resistance to tear and puncture than 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).

Shelf Life

To obtain best performance, use these products within 24 months from date of manufacture and store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 50% R.H. in the original carton.

General Purpose PTFE Glass Cloth Tape

5151 • 5153

page 2 of 2

- 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	Features	Advantages	Benefits
	<ul style="list-style-type: none">• Thick glass cloth backing	<ul style="list-style-type: none">• Long wear life• High impact and puncture resistance• Excellent tensile and tear strength	<ul style="list-style-type: none">• Helps increase productivity• Helps prolong life of parts, tools and equipment
	<ul style="list-style-type: none">• Thick PTFE coating	<ul style="list-style-type: none">• Good heat transfer• Exceptionally smooth surface• Provides non-stick, low friction surface• Resists most chemicals and corrosive action of most solvents, salts, acids	<ul style="list-style-type: none">• Helps reduce heat consumption• Helps save clean-up time, long lasting• Helps protect surfaces• Helps prolong parts and equipment life
	<ul style="list-style-type: none">• Silicone adhesive	<ul style="list-style-type: none">• High temperature performance• Long aging	<ul style="list-style-type: none">• Helps increase productivity

Technical Information and Data The technical information and data, recommendations, and other statements provided in this brochure are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be used with the 3M product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limited Warranty and Limited Remedy The 3M product will be free from defects in material and manufacture for a period of one (1) year from the date of manufacture. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If the 3M product is defective within the warranty period stated above, YOUR EXCLUSIVE REMEDY AND 3M'S SOLE OBLIGATION SHALL BE, AT 3M'S OPTION, TO REPLACE OR REPAIR THE 3M PRODUCT OR REFUND THE PURCHASE PRICE OF THE 3M PRODUCT.

Limitation of Liability Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, warranty, negligence, or strict liability.



Industrial Tape and Specialties Division

3M Center, Building 220-7W-03
St. Paul, MN 55144-1000
1 800 362 3550
1 800 223 7427 Fax on Demand
www.3M.com/industrialtape

© 3M IPC 2001
All rights reserved.

70-0709-4785-1
January 31, 2001