



# 5453 "Teflon" Glass Cloth Tape

## Product Data Sheet

Updated : September 2022  
Supersedes : March 2014

### Product Description

A woven glass cloth impregnated with "Teflon" gives this tape extra strength and dimensional stability in addition to the wear and low friction characteristics.

The extra thickness of 5423 gives added strength required for those more critical applications.

### Physical Properties

Not for specification purposes

<b>Adhesive Type</b>	Silicone.	
<b>Backing</b>	Woven glass cloth impregnated with Polytetrafluorethylene (PTFE) "Teflon".	
<b>Backing Thickness</b> (ASTM D-3652)	150 µm	
<b>Total Thickness</b>	220 µm	
<b>Tape Colour</b>	Natural	
<b>Shelf Life</b>	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

### Performance Characteristics

Not for specification purposes

<b>Adhesion to Stainless Steel</b> ASTM D-3330	3.8 N/10mm	
<b>Tensile Strength</b> ASTM D-3759	157.5 N/10mm	
<b>Temperature Range</b> Maximum Minimum	204 °C -73 °C	

### Additional Product Information

No. 5453 is chemically acceptable for use in processing, transporting, or storage areas for meat and poultry food products prepared under federal inspection. This information obtained from the U.S. Dept of Agriculture (U. S. D. A.)

Moisture absorption is close to zero, allowing No. 5453 to perform in humid environments.

Operational from -75°C to 260°C. No. 5453 resists

wrinkling and blistering when exposed to temperatures above 175°C. It has been employed in applications involving intermittent heat as high as 260°C, however, it is most effective from -75°C to 204°C.

Tear resistant. The reinforcement provided by the woven glass cloth fabric base aids tensile strength and resistance to tear and puncturing in comparison to "Teflon" film backed tapes.

### **CAUTION**

**The characteristics of "Teflon" film are such that at temperatures above 204°C, the film gives off small quantities of toxic fumes. Therefore, when using 3M "Teflon" Tapes above 204°C, adequate ventilation must be provided.**

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Cloth Tape

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<b>Application Techniques</b>	Best results are attained when applied to a clean, dry and non dusty surface above 0°C.	To improve adhesion ensure firm and even application pressure is applied.
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<b>Applications</b>	<p><b>Easy release surface on packaging and heat sealing machines, ironing and pressing equipment.</b></p> <p><b>Easy release surface coating on metal bonding tools.</b></p>	<p>Lining conveying chutes, troughs, ducts and baking equipment.</p> <p>Printing: hot-lead mat assembly, printing delivery boards, cover guides and idler rolls.</p>
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<b>Applications</b>	<p>Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M's Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer's use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.</p>
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FEATURES	ADVANTAGES	BENEFITS
Thick glass cloth backing.	Prolonged wear life. High impact and puncture resistance.	High productivity. Prolongs life of parts, tools and equipment.
Thick Teflon coating.	Excellent tensile and tear strength.	Saves clean-up time. Long lasting.
Thick Teflon coating.	Exceptionally smooth surface. Provides non-stick, low friction surface.	Saves clean-up time. Long lasting.
Thick Teflon coating.	Resists most chemicals and corrosive action of solvents, salts and acids.	Protects surfaces. Prolongs parts and equipment life.
Silicone adhesive.	High temperature performance. Long ageing.	Higher productivity.

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"Teflon" is a trademark of DuPont.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Industrial Adhesives & Tapes Division  
3M Belgium  
Hermeslaan 7  
1831 Diegem  
Belgium

Industrial Adhesives & Tapes Division  
3M Nederland  
Molengraafsingel 29  
2629 JD Delft  
Nederland