



UHMW Polyethylene Tape

5423

Technical Data

August, 1995

Product Description An ultra-high molecular weight polyethylene film coated with a rubber adhesive which provides an excellent abrasion resistant surface.

Construction	Backing	Adhesive	Liner	Color	Standard Roll Length
	Ultra-high molecular weight polyethylene	Rubber	Silicone treated paper	Translucent	18 yds. (16 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:	26 oz./in width (28 N/100 mm)	D-3330
Tensile Strength at Break:	55 lbs./in. width (963 N/100 mm)	D-3759
Elongation at Break:	300%	D-3759
Backing Thickness:	10 mils (.76 mm)	D-3652
Total Tape Thickness:	11.7 mils (.28 mm)	D-3652
Temperature Use Range:	-30°F to 225°F (-34°C to 107°C)	

General Information

- UHMW Polyethylene is a thermoplastic with a unique combination of properties which makes it ideal for many tough impact wear or sliding applications.
- 5423 tape is a thick caliper UHMW Polyethylene tape for extended service life as a protective surface against extreme wear.
- The liner on 5423 tape makes it possible to fabricate or die-cut the backing into various lengths and shapes.

Application Ideas

- Conveyor flat guide rails
- Discharge chutes
- Doctor blades
- Former noses
- Protecting aluminum sheets on stretch forming presses
- Spray booth liners
- Tank and bin liners
- Drawer and cabinet slides
- Feed and grain chutes

UHMW Polyethylene Tape

5423

Features	Advantages	Benefits
<ul style="list-style-type: none">• Tough UHMW polyethylene backing	<ul style="list-style-type: none">• Resists abrasion and wear under load• High energy absorption• Release surface for many sticky resinous or viscous materials• Low coefficient of friction• Helps prevent marking or scratching of product	<ul style="list-style-type: none">• Helps save money by reducing repairs or replacement of parts or equipment• Helps reduce noise• Helps reduce clean up and maintenance costs• Helps increase production speeds and equipment efficiency• Helps save money by reducing repairs

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-227-5085. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-8E-04, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M ITSD product in a particular application. The materials to be bonded with the 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 ITSD product. Given the variety of factors that can affect the use and performance of a 3M ITSD product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M ITSD product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

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
3M Center, Building 220-7E-01
St. Paul, MN 55144-1000



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

Printed in U.S.A.
©3M 1995 70-0703-2489-5