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3M

Polyethylene Tape

5421 • 5423

Technical Data

July, 2005

Product Description 3M™ Polyethylene Tape 5421 and 5423 has a rubber adhesive which provides an excellent abrasion resistant surface.

Product Construction	Backing	Adhesive	Liner	Color	Standard Roll Length
	Ultra-high molecular weight polyethylene	Rubber	60# densified kraft	Translucent	18 yds. (16.4 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 5421		
Adhesion to Steel:	26 oz./in width (28 N/100 mm)	D-3330
Tensile Strength:	30 lbs./in. width (526 N/100 mm)	D-3759
Elongation at Break:	275%	D-3759
Backing Thickness:	5.0 mils (0.13 mm)	D-3652
Total Tape Thickness: (without liner)	6.7 mils (0.17 mm)	D-3652
Liner Thickness:	3.5 mils (0.09 mm)	D-3652
Temperature Use Range:	-30° to 225°F (-34° to 107°C)	
3M tape 5423		
Adhesion to Steel:	26 oz./in width (28 N/100 mm)	D-3330
Tensile Strength:	55 lbs./in. width (963 N/100 mm)	D-3759
Elongation at Break:	300%	D-3759
Backing Thickness:	10 mils (0.25 mm)	D-3652
Total Tape Thickness: (without liner)	11.7 mils (0.30 mm)	D-3652
Liner Thickness:	3.5 mils (0.09 mm)	D-3652
Temperature Use Range:	-30° to 225°F (-34° to 107°C)	

Features

- Thick caliper UHMW polyethylene tape for extended service life as a protective surface against extreme wear.
- UHMW polyethylene is a thermoplastic that has a unique combination of properties which make it ideal for many tough impact wear or sliding applications.
- Liner makes it ideal for fabricating or die-cutting into various lengths and shapes.
- Outstanding abrasion resistance so will outwear many types of PTFE and other materials in sliding applications.
- Low coefficient of friction exceeded only by the PTFE's.
- Self-lubricating so can often be used where lubrication is not possible because of contamination.
- Sound damping for high energy absorption capacity helps reduce noise levels in machinery and equipment.

3M™ Polyethylene Tape

5421 • 5423

Application Ideas	<ul style="list-style-type: none">• Conveyor flat guide rails• Discharge chutes• Doctor blades• Former noses• Protecting aluminum sheets on stretch forming presses	<ul style="list-style-type: none">• Spray booth liners• Tank and bin liners• Drawer and cabinet slides• Feed and grain chutes
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Storage	Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.
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Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture.
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Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors 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.
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This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

**Industrial Business
Industrial Adhesives and Tapes Division**

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