



# UHMW Polyethylene Tape

## 5421

Technical Data

August, 1995

**Product Description** An ultra-high molecular weight polyethylene film 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	Transparent	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:	30 lbs./in. width (526 N/100 mm)	D-3759
Elongation at Break:	275%	D-3759
Backing Thickness:	5 mils (.13 mm)	D-3652
Total Tape Thickness:	6.7 mils (.17 mm)	D-3652
Temperature Use Range:	-30°F to +225°F (-34°C to 107°C)	

**General Information**

- UHMW Polyethylene is a thermoplastic that has a unique combination of properties which make it ideal for many tough impact wear or sliding applications.
- The liner on 5421 tape makes it ideal for fabricating or die-cutting the backing into various lengths and shapes.
- Store in a clean, dry place at 60-80°F (15-27°C) and 40-50% relative humidity no longer than 18 months from date of manufacture.

**Application Ideas**

- Conveyor flat guide rails
- Discharge chutes
- Doctor blades
- Former noses
- Spray booth liners
- Tank and bin liners
- Drawer and cabinet slides
- Feed and grain chutes

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

## 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.

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ISO 9002

This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.

**3M**

Industrial Tape and Specialties Division

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