

3M

UHMW Polyethylene Tape

5430 · 9324 · 9325

Technical Data

July, 2016

Product Description 3M™ UHMW Polyethylene Tapes are a film coated with an acrylic adhesive to help control squeaks and rattles due to vibration or wear of metal and plastic materials.

Product Construction	Backing	Adhesive	Color	Standard Roll Length
	UHMW-PE Film (ultra-high molecular weight polyethylene)	Acrylic	5430 - Translucent 9324 - Black 9325 - Translucent	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
3M tape 5430		
Adhesion to Steel:	66 oz./in. width (72 N/100 mm)	D-3330
Tensile Strength:	43 lbs./in. width (745 N/100 mm)	D-3759
Elongation at Break:	400%	D-3759
Backing Thickness:	5.1 mils (0.13 mm)	D-3652
Total Tape Thickness: (without liner):	7.4 mils (0.19 mm)	D-3652
Liner Thickness:	3.2 mils (0.08 mm)	D-3652
Temperature Use Range:	-30° to 225°F (-34° to 107°C)	
3M tape 9324		
Adhesion to Steel:	75 oz./in. width (82 N/100 mm)	D-3330
Tensile Strength:	40 lbs./in. width (700 N/100 mm)	D-3759
Elongation at Break:	450%	D-3759
Backing Thickness:	4.9 mils (0.13 mm)	D-3652
Total Tape Thickness: (without liner):	7.2 mils (0.18 mm)	D-3652
Liner Thickness:	2.0 mils (0.05 mm)	D-3652
Temperature Use Range:	-30° to 225°F (-34° to 107°C)	
3M tape 9325		
Adhesion to Steel:	66 oz./in. width (73 N/100 mm)	D-3330
Tensile Strength:	27 lbs./in. width (470 N/100 mm)	D-3759
Elongation at Break:	410%	D-3759
Backing Thickness:	3.0 mils (0.08 mm)	D-3652
Total Tape Thickness: (without liner):	5.3 mils (0.13 mm)	D-3652
Liner Thickness:	2.0 mils (0.05 mm)	D-3652
Temperature Use Range:	-30° to 225°F (-34° to 107°C)	

Features

- Tapes demonstrated no evidence of wear through after Taber Abrasion at 1000 cycles, using CS-10 wheel and 1000g load when applied to S-37 mounting sheet.
- Low water vapor transmission rate <0.50 g/100in.²/24hrs.
- High-tack acrylic adhesive provides strong initial bond to many painted metal and plastic surfaces.
- Thick caliper UHMW polyethylene tape for extended service life as a protective surface against tough impact wear or sliding applications.
- Outstanding abrasion resistance so will outwear PTFE and other materials in sliding applications.
- Low coefficient of friction characteristics is exceeded only by PTFE.
- UHMW-PE tape can be used where lubrication is not possible because of contamination.
- Liner makes it ideal for fabricating or die-cutting into various lengths and shapes.

Application Ideas

- Automotive instrument panel and interior noise reduction.
- Noise reduction between rim fascia and painted metal.
- Noise reduction on doors.
- Reduce squeaks, rattles and other noises that occur with movement
- Industrial sliding or wear applications requiring very high adhesion.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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This Industrial Adhesives and Tapes Division product was manufactured under a quality system registered to ISO 9001:2000 standards.



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