



Technical Data Sheet

3M™ UHMW Polyethylene Tape 5430



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

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

Product 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/100in²/24hr
- 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.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Attribute Name	Test Method	Value
Color		Translucent
Adhesive Type		Acrylic
Backing		UHMW-PE Film (ultra-high molecular weight polyethylene)
Backing Thickness	ASTM D3652	0.13 mm (5.1 mil)
Total Tape Thickness	ASTM D3652	0.19 mm (7.4 mil)
Liner Thickness		0.08 mm (3.2 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	7.2 N/cm (66 oz/in) ¹
Elongation at Break	ASTM D3759		420 %
Tensile Strength	ASTM D3759		74.5 N/cm (43 lb/in)
Long Term Temperature Resistance			107 °C (225 °F) ²
Minimum Long Term Temperature Resistance			-34 °C (-30 °F) ²

¹ 12 in/min (300 mm/min)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- 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 and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	32.9 m (36 yd)

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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