



# 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/100in<sup>2</sup>/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) <sup>1</sup>
Elongation at Break	ASTM D3759		420 %
Tensile Strength	ASTM D3759		74.5 N/cm (688 oz/in)
Long Term Temperature Resistance			107 °C (225 °F) <sup>2</sup>
Minimum Long Term Temperature Resistance			-34 °C (-30 °F) <sup>2</sup>

<sup>1</sup> 12 in/min (300 mm/min)

<sup>2</sup> 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**

<b>Attribute Name</b>	<b>Value</b>
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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