



# **Technical Data Sheet**

3M™ UHMW Polyethylene Tape 5430

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### **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</li>
  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	
Do alsin a		UHMW-PE Film (ultra-high molecular	
Backing		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 (43 lb/in)
Long Term Temperature			107 °C (225 °F) <sup>2</sup>
Resistance			107 C (223 1)
Minimum Long Term		34 °C (30 °E) 2	-34 °C (-30 °F) <sup>2</sup>
Temperature Resistance			-54 (-50 1)

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

<sup>&</sup>lt;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**

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

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### **ISO Statement**

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

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