



# **Technical Data Sheet**

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3M<sup>™</sup> UHMW Polyethylene Tape 5430





**Product Description** 

3M<sup>™</sup> 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
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**

Test Method	Temperature	Value
ASTM D3330	23 °C (73 °F)	7.2 N/cm (66 oz/in) <sup>1</sup>
ASTM D3759		420 %
ASTM D3759		74.5 N/cm (43 lb/in)
		107 °C (225 °F) <sup>2</sup>
		107 C (225 F)
		-34 °C (-30 °F) 2
		-54 C (-50 F) -
	ASTM D3330 ASTM D3759	ASTM D3330         23 °C (73 °F)           ASTM D3759

<sup>1</sup> 304 mm/min (12 in/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

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

#### **Information**

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### ISO Statement

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