## Technical data sheet



**Product:** 5421, 5423

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: **KLEBEBAND** 

Article group: **EINSEITIG** 

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## 5421/5423 UHMW-POLYETHYLENE TAPE

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## **3M**UHMW Polyethylene Tape 5421 · 5423

Product Description	3M <sup>TM</sup> UHMW Polyethylene Tapes are film coated with a rubber adhesive which provides an excellent abrasion resistant surface. These tapes feature a unique combination of properties that make it ideal for many tough impact wear or sliding applications. 3M <sup>TM</sup> UHMW-PE Film Tape 5421 is a thinner version of 3M <sup>TM</sup> UHMW-PE Film Tape 5423.			
<b>Product Construction</b>	Backing	Adhesive	Color	Standard Roll Length
	UHMW-PE Film (ultra-high molecular weight polyethylene)	Rubber		5 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 Tes Method
	3M tape 5421			
	Adhesion to Steel:		34 oz./in. width (37 N/100 mm)	D-3330
	Tensile Strength:		46 lbs/in. width (796 N/100 mm)	D-3759
	Elongation at Break:		470%	D-3759
	Backing Thickness:		5.0 mils (0.13 mm)	D-3652
	Total Tape Thickness		6.7 mils (0.17 mm)	D-3652
	( '.1 , 1' )			
	(without liner):		2.5:1- (0.00)	D 2652
	(without liner): Liner Thickness: Temperature Use Range	<b>:</b> :	3.5 mils (0.09 mm) -30° to 225°F (-34° to 107°C)	D-3652
	Liner Thickness: Temperature Use Range	<b>::</b>		D-3652
	Liner Thickness:	×		D-3652 D-3330
	Liner Thickness: Temperature Use Range 3M tape 5423	::	-30° to 225°F (-34° to 107°C)	
	Liner Thickness: Temperature Use Range  3M tape 5423 Adhesion to Steel:	::	-30° to 225°F (-34° to 107°C)  36 oz./in. width (39 N/100 mm)	D-3330
	Liner Thickness: Temperature Use Range  3M tape 5423 Adhesion to Steel: Tensile Strength:	»:	-30° to 225°F (-34° to 107°C)  36 oz./in. width (39 N/100 mm) 86 lbs/in. width (1500 N/100 mm)	D-3330 D-3759
	Liner Thickness: Temperature Use Range  3M tape 5423 Adhesion to Steel: Tensile Strength: Elongation at Break:	::	-30° to 225°F (-34° to 107°C)  36 oz./in. width (39 N/100 mm) 86 lbs/in. width (1500 N/100 mm) 530%	D-3330 D-3759 D-3759

## Tape demonstrated no evidence of wear through after Taber Abrasion at 1000 **Features** 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>/24hrs. 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 Rubber Adhesive provides good initial tack for immediate bonding to material surface. Liner makes it ideal for fabricating or die-cutting into various lengths and shapes. **Application Ideas** Noise reduction between dissimilar parts. Reduce squeaks, rattles and other noises that occur with movement Lining of conveyer guide rails, tank and bin liners, and discharge chutes. Protection for aluminum sheets on stretch forming presses. Liners for Spray booths. Slick surface for easy glide for drawers and cabinets. Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative **Storage** humidity in the original packaging material. **Shelf Life** To obtain best performance, use this product within 18 months from date of manufacture. The technical information, recommendations and other statements contained in this document are **Technical** based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of **Information** such information is not guaranteed. **Product Use** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method Warranty, Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product Limited Remedy, specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR and Disclaimer CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOS OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Limitation of Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory Liability

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