3M UHMW Polyethylene Tape 5421 · 5423

Product Description	provides an excellent ab combination of propertie	⁴ UHMW Polyethylene Tapes are film coated with a rubber adhesive which des an excellent abrasion resistant surface. These tapes feature a unique ination of properties that make it ideal for many tough impact wear or sliding cations. 3M [™] UHMW-PE Film Tape 5421 is a thinner version of 3M [™] UHMW Im Tape 5423.		
Product Construction	Backing	Adhesive	Color	Standard Roll Length
	UHMW-PE Film (ultra-high molecular weight polyethylene)	Rubber	Translucent	36 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 D-3759
	Elongation at Break: Backing Thickness:		470% 5.0 mils (0.13 mm)	D-3759 D-3652
	Total Tape Thickness (without liner):		6.7 mils (0.17 mm)	D-3652 D-3652
	Liner Thickness: Temperature Use Range	:	3.5 mils (0.09 mm) -30° to 225°F (-34° to 107°C)	D-3652
	3M tape 5423			
	Adhesion to Steel:		36 oz./in. width (39 N/100 mm)	D-3330
	Tensile Strength:		86 lbs/in. width (1500 N/100 mm)	D-3759
	Elongation at Break:		530%	D-3759
	D 1 · · · · · · ·		10 mils (0.25 mm)	D-3652
	Backing Thickness:			-
	Backing Thickness: Total Tape Thickness (without liner): Liner Thickness:		12 mils (0.30 mm) 3.5 mils (0.09 mm)	D-3652

Features	 Tape 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.²/24hrs. 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 contamination. 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. 		
Storage	Store under normal conditions of 60° to 80° F (16° to 27° C) and 40 to 60% relative humidity in the original packaging material.		
Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture.		
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