3M UHMW Polyethylene Tape 5421 · 5423

Product Description	provides an excellent ab combination of propertie	rasion resist es that make	bes are film coated with a rubber adhesive which esistant surface. These tapes feature a unique hake it ideal for many tough impact wear or sliding Film Tape 5421 is a thinner version of 3M [™] UHMW		
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) 470%	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	
	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)		
	Elongation at Break:		530%	D-3759	
	Backing Thickness:		10 mils (0.25 mm)	D-3652	
	Total Toma Thialmaga		12 mils (0.30 mm)	D-3652	
	Total Tape Thickness (without liner): Liner Thickness:		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.		
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness or such information is not guaranteed.		
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