## **3M** UHMW Polyethylene Tape 5425

Product Description	3M <sup>™</sup> UHMW Polyethylene Tape 5425 is a film coated with a special acrylic adhesive that is resistant to many solvents.					
Product Construction	Backing	Adhesive	Liner	Color	Standard Roll Length	
	Ultra-high molecular weight polyethylene	Acrylic	55# densified kraft	Translucent	36 yds. (32.9 m)	
Typical Physical Properties	Note: The following technical information and data should be considered representativ or typical only and should not be used for specification purposes.					
					ASTM Test Method	
	Adhesion to Steel:		./in. width (33 N/1	D-3330		
	Tensile Strength:		s./in. width (788 N	D-3759		
	Elongation at Break:	100%		D-3759		
	Backing Thickness:	3.0 mils (0.08 mm)			D-3652	
	Total Tape Thickness: (without liner)	5.0 mils (0.13 mm)			D-3652	
	Liner Thickness:	3.2 m	ils (0.08 mm)	D-3652		
	Temperature Use Ran	Range: -30° to 225°F (-34° to 107°C)				
Features	<ul> <li>Acrylic adhesive is a firm high solvent and oil resistant adhesive which bonds best to high surface energy materials.</li> <li>UHMW polyethylene is a thermoplastic that has a unique combination of properties which make it ideal for many tough impact wear or sliding applications. Within its operational temperature range, UHMW polyethylene tape can provide the following the following structure range.</li> </ul>					
	advantages: A. Outstanding abrasion resistance:			Will outwear many types of PTFE and othe materials in sliding applications.		
	B. Low coefficient of friction:			Exceeded only by the PTFE's.		
	C. Self-lubricating:		Can of	Can often be used where lubrication is not possible because of contamination.		
	D. Sound damping:			High energy absorption capacity helps reduce noise levels in machinery and equipment.		

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Application Ideas	Abrasion protection for rubber fuel cells.		
Application fueas	<ul><li>Gaskets exposed to many corrosive chemicals.</li></ul>		
	Spiral wrap wire harness to resist hydraulic fluids.		
	• Dissimilar metal separation to help prevent wear and chemical corrosion.		
	• Excellent for wear surfaces where transparency is needed.		
	• Guide rails and chutes requiring a more durable, solvent resistant slide surface.		
Storage	Store under normal conditions of $60^{\circ}$ to $80^{\circ}$ F ( $16^{\circ}$ to $27^{\circ}$ C) and 40 to $60\%$ R.H. in the original carton.		
Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture.		
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	(ISO 9001:2000)		

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## **Industrial Adhesives and Tapes Division**

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