3M Aluminum Foil Tape 425 • 427

Technical Data						June, 2015	
Product Description	3M [™] Aluminum Foil Tapes 425 and 427 combine a 3 mil nominal dead soft aluminum foil backing with a transparent acrylic adhesive. 3M aluminum foil tape 427 offers an easy-release liner.						
Product Construction	Backing	Adhesive	Color		Liner	Standard Roll Length	
	Dead soft aluminum	Acrylic St		iny silver Easy-release paper (3M aluminum foil tape 4		60 yds. (55 m)	
Typical Physical Properties					on and data should be co used for specification pu		
L						ASTM Test Method	
	Adhesion to Steel: 3M aluminum foil tape 425 3M aluminum foil tape 427			47 oz./in. width (51 N/100 mm) 50 oz./in. width (55 N/100 mm)		D-3330	
	Tensile Strength:			28 lbs./in. width (490 N/100 mm)		D-3759	
	Backing Thickness:			2.8 mils (0.07 mm)		D-3652	
	Total Tape Thickness:		4.0	4.6 mils (0.12 mm)		D-3652	
	Liner Thickness: 3M aluminum foil tape 427		427 3.	3.1 mils (0.08 mm)		D-3652	
	Elongation at Break:		6%	6%		D-3759	
	Temperature Use Range:		-6	-65° to 300°F (-54° to 149°C)			
	Water Vapor Transmission Rate:			005 g H ₂ O/100 sq. in./24 hrs. (0.77 g/m²/24 hrs.)		D-3833	
	Approximate Weight:		0.0	0.013 lbs./yd./in. width (4.77 gms/m/24 mm)			
Features	 Flame resistant. Meets U.L. 746C (File E 122798) and 723, Class "L" low flammability rating (File R 7311). 3M aluminum foil tape 425 can be certified to meet SAE-AMS-T-23397 and L-T-80C. 						
	• Meets requirements of F.A.R. 25.853(a).						
	• The very low moisture vapor transmission rate makes these tapes a good sealant.						
	• The acrylic adhesive, combined with the durable aluminum backing, offers ideal properties for long serviceable life in and outdoors.						
	• Good candidate as a maskant in electroplating of aluminum because it will not contaminate the bath.						
	• Aluminum backing provides excellent reflection of both heat and light.						
	• Best results obtained when applied to a clean, dry surface above 32°F (0°C).						
	Administration or endorse t	on have evaluate he usage of the	ed or revie aluminum	wed this tape for	medical usage. Neither 3M n tape for medical application. 3 medical application. User ass t in a medical application.	3M does not recommend	

3M[™] Aluminum Foil Tape

425 • 427

 Moisture barrier in "white goods" appliances. General purpose heat reflector and heat dissipater. Mechanically hold wires and cooling coils in "white goods" appliances. Repair tears on truck trailers and aircraft. Splicing of thin gauge foils. General purpose holding, patching, sealing applications – indoors and out. Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.				
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To obtain best performance, use this product within 24 months from date of manufacture.				
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