3M

Polyester Film Tape

850

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Technical Data						
Product Description	A polyester film tape that can generally be used for splicing and applications where chemical resistar and/or clean removal is necessary. The silver backing is a transparent polyester with a thin layer of aluminum and the gold is a pigmented polyester with a thin layer of aluminum.					
Product Construction	Backing Adhes	Acrylic (transparent or pigmented)			Standard Roll Length	
	Polyester Acryli			parent, Red, , White, , gold	72 yds. (66m)	
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	st Method	
	Adhesion to Steel:	30 oz./in. width (33 N/100)mm)	D-3330		
		Silver and Gold: 42 oz./in (46 N/100mm)	Silver and Gold: 42 oz./in. width D-3 (46 N/100mm)			
	Tensile Strength at Break:	28 lbs./in. width (491 N/10	00mm)	D-3759		
	Elongation at Break:	120%		D-3759		
	Backing Thickness:	.9 mils (.02mm)		D-3652		
	Total Tape Thickness:	1.9 mils (.05mm)		D-3652		
	Water Vapor Transmission Rate:	1.6 gms H ₂ O/100 sq. in./2-(24.8 g/m ² /24hrs.)	4 hrs.	D-3833		
		Silver and Gold: 0.9 gms. $H_2O/100$ sq. in./24 hrs. (7 g/m ² /24hrs.)		D-3833		
	Outgassing (Transparent % TML .61, %CVCM .08 Tape):					
General Information	 Prolonged exposure to sunlight or hot caustics will cause backing to become brittle and lose tensile strength. 					
Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture and store in clean dry conditions of 60 - 80°F (15 - 27°C) and 40 - 50% R.H. in the original carton.					
Application Ideas	Transparent, red, black, white:		Silver and Gold:			
	Splicing and web defect marking		Post splicing movie film			
	Sealing, labeling and protecting		 Deflect flagging where reflective sensing is required 			
	• Positive film striping (850 transparent tape)		Decorative striping and die cutting			
	Decorative edging		Decorative edging			
	Tape Hinge					

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Features	Features Advantages		Benefits		
	Polyester film	Thin, high strength	Helps reduce failures due to breakage while meeting low caliper requirements.		
		Chemical and solvent resistance	Helps reduce rejects produced from chemical and solvent attack		
		Abrasion resistance	Helps protect surface from abrasions and rough handling		
	Acrylic adhesive	Firm, long aging	Helps reduce failure caused by adhesive oozing and loss of tack		
	Silver and Gold: Metallic coated polyester film	Reduced static charge	Provides easier handling properties		
		Extremely low MVTR	Helps reduce product damage caused by moisture		
Technical Information and Data	The technical information and data, recommendations, and other statements provided in this document are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.				
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		(180 9002)			

This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to



Industrial Tape and Specialties Division

ISO 9002 standards.

3M Center, Building 220-7W-03 St. Paul, MN 55144-1000 1 800 362 3550 1 800 223 7427 Fax on Demand www.3M.com/industrialtape

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