



850 Transparent and Coloured Polyester Film Tapes

Product Data Sheet

Updated : March 1996
Supersedes : October 1993

Product Description Transparent polyester film backing with an acrylic adhesive.

Coloured versions are available by tinting the adhesive.

Physical Properties
Not for specification purposes

Adhesive Type	Acrylic, transparent or pigmented.	
Backing	0.02mm Polyester film.	
Thickness (ASTM D-3652)	50 µm	
Tape Colour	Red, Black, White, Silver, Brown and Transparent.	
Shelf Life	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

Performance Characteristics
Not for specification purposes

Adhesion to Stainless Steel ASTM D-3330	3.1 N/10mm	
Tensile Strength ASTM D-3759	49.1 N/10mm	
Elongation at Break ASTM D-3759	143 %	
Temperature Range Maximum Minimum	175 °C -50 °C	
Water Vapour Transmission Rate	24.8 g/m ² /24h	

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Additional Product Information	Adhesive bond will increase to most surfaces upon ageing. Prolonged exposure to sunlight or hot caustics will cause backing to become brittle and lose tensile strength.	Not recommended to exceed one year under normal storage conditions at 20°C and 50% R.H.	
Application Techniques	Best results are attained when applied to a clean, dry and non dusty surface above 0°C.	To improve adhesion ensure firm and even application pressure is applied.	
Applications	Splicing and web defect marking.	Sealing, labelling and protecting.	Positive film stripping (850 Trans).
	Decorating.	Edging.	Tape hinge.

FEATURES	ADVANTAGES	BENEFITS
Polyester film.	Thin, high strength.	Reduces failures due to breakage while meeting low caliper requirements.
	High moisture resistance.	Protects against moisture penetration.
	Chemical and solvent resistance.	Reduces rejects produced from chemical and solvent attack.
	Wide temperature range resistance -50°C to 175°C continuously.	Reduces failure caused by film shrinkage or embrittlement.
Acrylic adhesive.	Abrasion resistance.	Provides surface protection from abrasion and rough handling.
	Firm, long ageing.	Reduces failure caused by adhesive oozing and loss of tack.
	Resists discolouration as opposed to rubber based adhesives.	Provides optimum aesthetics.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Specialty Tapes & Adhesives

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3M United Kingdom PLC
3M House,
28 Great Jackson Street,
Manchester,
M15 4PA

Customer Service :
Tel 0161 236 8500
Fax 0161 237 1105

3M Ireland
3M House, Adelphi Centre,
Upper Georges Street,
Dun Laoghaire, Co. Dublin,
Ireland

Customer Service :
Tel (01) 280 3555
Fax (01) 280 3509