9482 Transfer Tape

Product Data Sheet

Updated : February 1996
Supersedes : October 1993

Product Description

A-25 is a firm acrylic pressure-sensitive adhesive system. It features very high adhesion to a variety of surfaces, excellent shear holding power, high temperature resistance and an excellent UV resistance.

The nature of the adhesive allows for good initial tack to the above materials.

Ideal for trim bonding.

Physical Properties
Not for specification purposes

Adhesive Type	Firm Acrylic	**3M ref :** A-25
Thickness (ASTM D-3652) Tape Liner Total	 50 µm 2 Thou 100 µm 150 µm	
Release Liner	Moisture Resistant Tan Paper	
Tape Colour	Clear	
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	7.6 N/10mm	See Peel Adhesion continued below.
Shear Resistance	Excellent.	See Static Shear Adhesion continued below.
Temperature Performance Max : Minutes / Hours Max : Days / Weeks Minimum	 230 °C 150 °C - 30 °C	
Solvent Resistance	Very Good.	
UV Light Resistance	Excellent.	

Additional Product Information

9482 has a moisture resistant liner which can withstand high humidity conditions with minimal cockling or wrinkling.

9482 is ideally suited for joining materials that are relatively smooth, thin and have low residual stress.

For materials with a rough or textured surface the thicker adhesive film of 9485 or 926 would be appropriate.

Application Techniques

1. Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact & thus improves bond strength.

2. To obtain optimum adhesion, the bonding surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol. Use proper safety precautions for handling solvents.

3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F).

Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended because the adhesive becomes too firm to adhere readily. However once properly applied low temperature holding is generally satisfactory.

Applications

This tape is well suited for joining a wide variety of similar and dissimilar materials where high temperature performance and excellent UV resistance is required.

Trim and stiffener bonding.

PEEL ADHESION (ASTM D-3330) (180° peel, room temperature conditions)	**SURFACE**	**15 min dwell N/10mm**	**72 hr dwell N/10mm**
	Stainless Steel	6.0	7.6
	Aluminium	3.8	5.5
	Painted Metal	4.9	6.5
	Glass	6.5	7.1
	Polycarbonate	6.0	7.1
	Acrylic	6.0	6.5
	Epoxy	5.5	7.1
	ABS	4.9	5.5
	Rigid PVC	4.4	5.5
	Polypropylene	4.4	4.9
	L.D. Polyethylene	3.3	3.8
	H.D. Polyethylene	2.7	3.3

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Static Shear Adhesion (ASTM D-3654) (1sq. in. Area contact - aluminium to stainless steel - 72hr dwell)	Temperature °C	Load g	Minutes to Failure
	20	1000	
	70	400	NO FAILURES - TESTS DISCONTINUED AFTER 10,000 min.
	90	400	
	120	300	
	150	300	
	175	300	
	230	200	

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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.

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Specialty Tapes & Adhesives

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