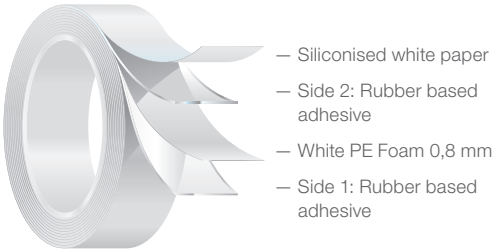
FM M1780

FM M1780 is a pressure-sensitive fastening system consisting of a variety of cross linked, closed-cell, polyethylene foams in various thicknesses, densities and colors, and coated both sides with specifically formulated pressure-sensitive adhesives.

CONSTRUCTION & TYPICAL APPLICATION:

- Consists of a 0,8 mm white, cross-linked, closed-cell, polyethylene foam coated on both sides with a rubber based adhesive. It offers high peel and very high shear properties.
- Produced in self-wound format on a calendered paper liner.
- For applications where high shear and high performance are required: e.g. mirror mounting, heavy duty POS.



Adhesion with Substrates			
Metal / Aluminium	High	Acrylic / PET	High
Glass / Ceramics	High	Polystyrene	High
Painted Surface	High	PP / PE / PS	Medium
Wood / Board / Paper	High	Textile / Cotton	Medium
Soft PVC	Low	Rubber / EPDM	Medium
Rigid PVC	Medium	Smooth Substrate	High
PC / ABS	Medium	Rough Substrate	Medium

RESISTANCE:

- Resistant to water, detergents and alcohol. Low resistance to plasticizers and low outdoor resistance. Not recommended for use in contact with aliphatic or aromatic hydrocarbons.

SHELF LIFE:

- 2 years when stored at 15/25° C and ± 50% relative humidity.

FM M1780

ADHESIVE DATA	Typical Values*	Test Method
Peel 180° (N/25mm) on brushed stainless steel (ref. Nokoro 304 poli. N°4) - after 20 minutes	> 15**	FTM 1
Shear on brushed stainless steel (ref. Nokoro 304 poli. N°4) 1kg – 25mm x 25mm (hours)	> 10000	FTM 8

CARRIER DATA	Typical Values*	Test Method
Tensile (N/15mm)	MD 20 CD 12	DIN 53455
Elongation (%) (max.)	MD 500 CD 500	DIN 53455
Density	High	

TEMPERATURE RESISTANCE	Typical Values*	Test Method
Minimum Application Temperature	+ 10°C	
End-use Temperature Range	- 40°C to + 65°C	

RELEASE LINER	Typical Values*	Test Method
White Silicone Paper	90 gr/sqm	ISO 536

THICKNESS	Typical Values*	Test Method
Carrier + Adhesive	0,9mm	ISO 534

*Values given are typical and are not necessarily for use in specifications.
**Foam cleavage.

APPLICATION TECHNIQUES:

- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (firm / rigid) surface achieves different performance

IMPORTANT NOTICE:

Information on the above characteristics is based upon tests we believe to be reliable. The values given are typical values that vary according to application conditions. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine prior to use the suitability of this material for their specific purposes. All Avery Dennison materials described herein are sold subject to Avery Dennison Conditions of Sales, a copy of which is available upon request.

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