9088FL, 9088, 9087 and 9086
High Performance Double Coated Tapes

Product Data Sheet

Updated: October 2005
Supersedes: March 2004

Product Description

These products combine a very high level of adhesive peel and shear performance. The adhesive system used on these products provides good adhesion to both high and low surface energy substrates. The excellent initial tack ensures that a bond of good integrity is achieved soon after application.

Physical Properties Not for specification purposes	**9088FL**	**9088**	**9087**	**9086**
Adhesive Type	Modified Acrylic	Modified Acrylic	Modified Acrylic	Modified Acrylic
Thickness (not including liner)	205 microns	205 microns	265 microns	190 microns
Carrier	PET	PET	PVC	Non Woven Tissue
Liner	Red filmic polypropylene	White paper with red 3M logo	White paper with green 3M logo	White Paper with black 3M logo
Tape Colour	Clear	Clear	White	Neutral
Shelf Life	24 months from date of manufacture when stored in the original carton at 21℃ (70℉) & 50 % Relative Humidity			

Performance Characteristics Not for specification purposes		**9088FL**	**9088**	**9087**	**9086**
Peel Adhesion to Stainless Steel (180° Peel at 300mm/min)		15.0 N/cm	15.0 N/cm	15.5 N/cm	16.0 N/cm
Static Shear (Stainless Steel 25mmx 25mm)	**23°C / 1kg**	10,000 mins	10,000 mins	10,000 mins	10,000 mins
	65°C / 500g	10,000 mins	10,000 mins	10,000 mins	10,000 mins
	90°C / 500g	10,000 mins	10,000 mins	n/a	n/a
Temperature	**Continuous**	93°C	93°C	70°C	85°C
	Short term (hours / days)	150°C	150°C	85°C	120°C
	Low Temp	-40°C	-40°C	-40°C	-40°C
Solvent Resistance		Good	Good	Good	Good
UV Resistance		Very Good	Very Good	Very Good	Very Good
Plasticiser Resistance*		Good	Good	Good	Good

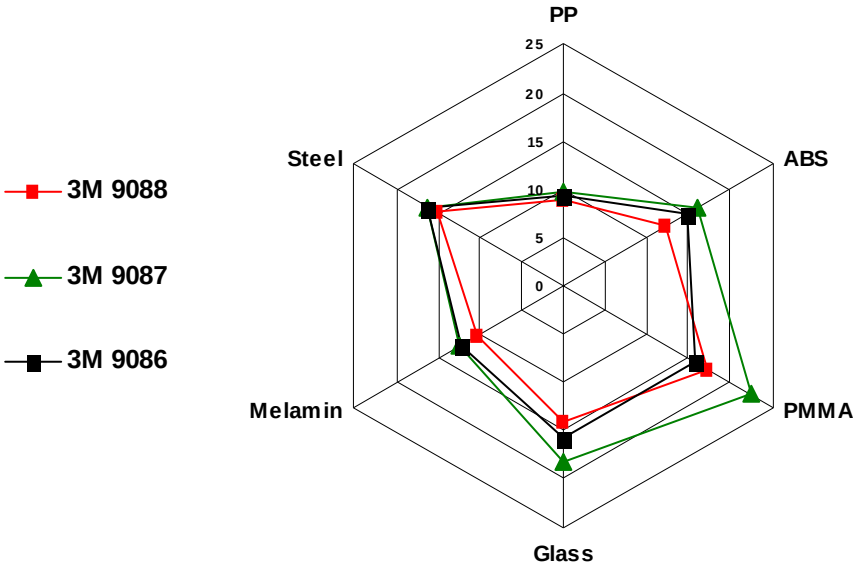
NB The silicon paper liners are all colour coded in order to ensure quick and accurate identification of the products. The liners all exhibit an easy release system designed to aid assembly.

Additional Product Information

For maximum bond strength the surfaces should be thoroughly cleaned ideally with 3M VHB™ Surface Cleaner. Consult manufacturers directions for use and precautions when using cleaning solvents. Ideal tape application is accomplished when temperature is between 21°C and 38°C (70°F and 100°F) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 15°C (59°F) is not recommended. Firm application pressure needs to be applied to the whole bond area ideally using a roller or similar tool.

***Plasticiser**

All products show good resistance to plasticiser migration. However due to the wide range of plasticisers available we strongly suggest that an evaluation is conducted prior to use to ensure compatibility. 10 days at 50°C will usually accelerate any potential problems. Plasticisers are typically found in materials such as PVCs and some rubbers.



Substrates
180° Peel N/cm

Applications

All these products are well suited to bonding together a wide variety of similar and dissimilar materials such as wood, metals, glass, powder coated finishes, paints, and many plastics and fabrics. Surfaces should be clean

Typical Markets

Plastic Extrusions	Metal Fabrication	Blister Packs & Packaging
Auto Trim & Interiors	Picture Framing	Elevators / Lifts
Point of Sale	Sports Equipment	Badge & Nameplates
Signage	Fabric & Leather Stitching	Shop Fitting
Manufacturers of Blinds	Print Finishing	
Furniture Trim	Card Mailing	

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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