3M

Double Coated Removable Foam Tape with Adhesive 100

4658F

Technical Data				January, 2003
Product Description	3M TM Double Coated Removable Foam Tape 4568F is a clear, double coated acrylic foam tape that removes cleanly from many surfaces. 3M TM Adhesive 100 is a firm acrylic adhesive system that offers high ultimate bond strength, good temperature resistance, solvent resistance and static shear holding power.			
Typical Physical Properties	Product		3M Tape 4658F	
	Adhesive Type:		100	
	Foam Type:		Acrylic	
	Thickness:	Nominal	1/32 in., 0.031 in. (.0	 08 mm)
		Tolerance	± 10%	,
	Color:		Clear	
	Release Liner:	Release Liner: 0.003 in. (.08 mm) Clear Polyester Film		Polvester Film
	Approximate Den	sity: lb./ft ³	60	
	Foam Only	(kg/m ³)	(960)	
			nformation and data should be considered representative d not be used for specification purposes. 15 lb./in. width (263 N/100 mm)	
	Static Shear: 1/2 in.² (3.23 cm²) overlap Will hold listed gram weight		72°F (22°C) 120°F (49°C)	1000 g. 750 g.
	for 10,000 minutes	•	150°F (49°C)	730 g. 500 g.
	Temperature Resistance: Short Term (Minutes, Hours)		212°F (10	-
	Long Term (Days, Weeks)		175°F (80°C)	
	U.V. Resistance:		Excellent resistance to direct exposure to sunlight or other sources of ultraviolet (U.V.) light.	
	Solvent Resistance:		No apparent degradation when exposed to splash testing of most hydrocarbon solvents.	
	Shelf Life:		24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.	
Available Sizes	*Standard Stock Sizes:		1/2 in. x 27 yds. (12 mm x 25 m) 3/4 in. x 27 yds. (19 mm x 25 m) 1 in. x 27 yds. (25 mm x 25 m)	
	Slitting Tolerance:		± 1/32 in., ± 0.031 in. (± 0.8 mm)	
	Maximum Width:		46 ¹ / ₂ in. (1.18 m)	
	Maximum Roll Length:		175 yds. (160 m)	
	*Questions regarding other possible tape sizes and shipping quantities should be directed to either your			

^{*}Questions regarding other possible tape sizes and shipping quantities should be directed to either your 3M sales representative or 3M's customer service at 1-800-362-3550.

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Application Techniques

- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol (rubbing alcohol) and water or heptane. **Note:** Carefully read and follow manufacturer's precautions and directions for use when using solvents.
- Ideal tape application temperature is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive may become too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

Design Considerations

- As a general rule, four square inches of tape should be used for each pound of weight to be supported in static load. More or less tape may be required depending upon the particular application. User evaluation is, therefore, required to determine optimal tape usage.
- Care should be used when bonding to surfaces with very low internal strength such as painted plaster board, fabric or cloth, wallpaper, blown vinyl, etc. since delamination of that surface may occur.
- Care should also be taken with wood veneers and highly polished wood as very glossy surfaces may leave an image when the tape is removed.

Removal Techniques

For rigid surfaces, lever or pry apart the substrates to break the bond.



For flexible surfaces, peel back slowly to ensure clean removal.



To remove tape from substrate, pull back corner and peel off quickly.



Application Ideas

- Signs
- Smoke Alarms
- · Point of Purchase and other Displays
- Holding Electronic Accessories
- Dispensers
- Nameplates

- Exhibitions
- · Air Fresheners
- · Picture Frame Tabs

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/adhesives. Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55106. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

Important Notice

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ISO 9002

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



