

Technical Data Sheet

3M™ Double Coated Removable Foam Tape 4658F

Product Description		
		eanly from many surfaces. 3M™ Adhesive 100 is a firm each static shear holding power. 3M tape 4658F can reach
Technical Information Note		
The following technical information and data should be	considered representative or typical only and should no	t be used for specification purposes.
Typical Physical Properties		
Property	Values	Additional Information
Adhesive Type	100	
Foam Type	Acrylic	
Color	Clear	
Liner Color	Clear	View ^
Test Name: Primary		
Liner	Polyester Film	
Liner Thickness	0.08 mm	
Thickness: Nominal	0.8 mm	
Thickness: Nominal	31 mil	
Liner Thickness	3 mil	

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Thickness Tolerance ± 10 %

Foam Density	960 kg/m³
Foam Density	60 lb/ft³

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion Stainless Steel	240 oz/in	View ^

Test Method: ASTM D3330

Test Name: 90° Peel Adhesion Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel

Backing: 2 mil PET

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion Stainless Steel	26.3 N/cm	View ^
Notes: 12 in/min (300 mm/min) ASTM D3330 72 ho	ur dwell on Stainless Steel at 23°C (72°F) and 50% RH Ba	acking: 2 mil Polyester
Short Term Temperature Resistance	212 °F	View ^
Test Condition: Short Term (minutes, hour)		
Short Term Temperature Resistance	100 °C	View ^
Test Condition: Short Term (minutes, hour)		
Long Term Temp C	80 °C	View ^

Test Condition: Long Term (day, weeks)

Long Term Temp F View ^ 175 °F Test Condition: Long Term (day, weeks)

1000 g

View ^

Test Method: ASTM D3654

Static Shear

Test Condition: Room Temperature

Notes: 1/2 in x 1 in sample size; Test terminated at 10,000 min

Static Shear View ^ 750 g

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Test Method: ASTM D3654

Test Condition: @ 49°C (120°F)

Notes: 1/2 in x 1 in sample size; Test terminated at 10,000 min

Static Shear	500 g	View ^
Test Method: ASTM D3654		
Test Condition: @ 70°C (158°F)		
Notes: 1/2 in x 1 in sample size; Test termin	nated at 10,000 min	
Solvent Resistance	No apparent degradation when exposed to splate testing of most hydrocarbon solvents.	ash
UV Resistance	Excellent resistance to direct exposure to sunligor or other sources of ultraviolet (U.V.) light.	ght
Available Sizes		
Property	Values	Additional Information
Maximum Length	160 m	

Maximum Available Width	1.18 mm		
Maximum Available Width	46.5 in		

175 yd

Normal Slitting Tolerance	±0.8 mm	
Normal Slitting Tolerance	±1/32 in	

Available Sizes	1/2 in x 27 yd (12 mm x 25 m)
	3/4 in x 27 yd (19 mm x 25 m)
	1 in x 27 yd (25 mm x 25 m)

Design Considerations

Maximum Length

• 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.

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- 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.

Storage and Shelf Life

Product retains its performance and properties for 24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Bottom Matter

3M Industrial Adhesives and Tapes Division 3M Center, Building 225-3S-06 St. Paul, MN 55144-1000 800-362-3550

Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

- Signs
- Holding Electronic Accessories
- Exhibitions
- Smoke Alarms
- Dispensers
- Air Fresheners
- Point of Purchase and other Displays
- Nameplates
- Picture Frame Tabs

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.

Removal Techniques

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40072049/

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Safety Data Sheet SDS

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=4658F

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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