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Technical Data Sheet

3M™ Glass Cloth Tape 398FR

Product Description

3M[™] Glass Cloth Tape 398FR has an acrylic adhesive for many applications requiring high adhesion, an abrasion-resistant backing and flame retardant properties. This product is typically used for sealing aircraft cargo bay panels to provide a permanent seal.

Product Features

- Meets flame retardancy requirements of FAR 25.853 (a) Appendix F Part I (a) (1) (ii) and FAR 25.855(d) Appendix F Part I (a) (2) (ii).
- 3M[™] Glass Cloth Tape 398FR meets the requirements of and can be qualified to Boeing material specification BMS 5-146 Type I, Class I, Grade A.
- EU compliant per directive 2003/11/EC of the European Parliament and the Council of February 6, 2003, amending Council Directive 76/769/EEC which restricts the use of penta-BDE and octa-BDE flame retardants.
- Acrylic adhesive has excellent long aging properties ideal for many permanent applications.
- White color makes finished job look appealing.
- Formulation does not contain antimony.
- High conformability.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Property	Values	Additional Information	
Backing	Glass Cloth		
Adhesive Type	Acrylic		
Color	White		
Liner Color	Blue	View ^	
Test Name: Primary			
Liner	HD Polyethylene Film		
Backing Thickness (mm)	0.13 mm	View ^	
Test Method: ASTM D3652			



Total Tape Thickness (mil)	7 mil	View ^
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.18 mm	View ^
Test Method: ASTM D3652		
Backing Thickness	5 mil	View ^
Test Method: ASTM D3652		
Weight	231 g/m²	View ^
Test Method: ASTM D1000		
Weight	6.8 oz/yd²	View ^
Test Method: ASTM D1000		
Typical Performance Characteristics		
Property	Values	Additional Information
Tensile Strength	227.7 N/cm	View ^

Test Method: ASTM D3759

180° Peel Adhesion	4.2 N/cm	View ^
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	38 oz/in	View ^
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Tensile Strength (lb/in)	130 lb/in	View ^
Test Method: ASTM D3759		
Elongation at Break (%)	7 %	View ^
Test Method: ASTM D3759		
Long Term Temp C	121 °C	View ^
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Test Condition: Long Term (day, weeks)

Minimum Long Term Temperature Resistance	-29 °C	View ^
Test Condition: Long Term (day, weeks)		
Long Term Temp F	250 °F	View ^
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	-20 °F	View ^
Test Condition: Long Term (day, weeks)		

Storage and Shelf Life

Store in a clean dry place at 60-80°F (15-27°C).

When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Industry Specifications

FAR 25.853 (a) Appendix F Part I (a) (1) (ii) FAR 25.855(d) Appendix F Part I (a) (2) (ii) Meets the requirements of and can be qualified to Boeing material specification BMS 5-146 Type I, Class I, Grade A EU compliant per directive 2003/11/EC of the European Parliament and the Council of February 6, 2003, amending Council Directive 76/769/EEC which restricts the use of penta-BDE and octa-BDE flame retardants

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

Handling/Application Information

Application Examples

- Sealing thermal and acoustic insulation panels where high adhesion and flame retardancy are needed.
- Aircraft window sealing, duct sealing and seat repair.
- Protection of wire harnesses, electrical cables or hoses from temperature extremes and abrasion.
- Marine applications.
- Many general industrial uses.

References

Property	Values		

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3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40068301/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn& q=398FR

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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