

February, 2006

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		Method	Attribute Modifier
Color	White			
Total Tape Thickness	0.18 mm	7 mil	ASTM D3652	
Backing Thickness	0.13 mm	5 mil	ASTM D3652	
Backing	Glass Cloth			
Adhesive	Acrylic			
Liner	HD Polyethylene Film			
Liner Color	Blue			Primary
Weight	231 g/m ²	6.8 oz/yd ²	ASTM D1000	

Typical Performance Characteristics

Property	Values		Method	Backing	Notes
180° Peel Adhesion	4.2 N/cm	38 oz/in	ASTM D3330	2 mil Aluminum Foil	12 in/min (300 mm/min) 72 hr dwell on Stainless Steel
Tensile Strength	227.7 N/cm	2080 oz/in	ASTM D3759		
Elongation at Break	7 %		ASTM D3759		
Temperature Use Range	-29 to 121 °C	-20 to 250 °F			

Handling/Application Information

Application Ideas

- 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.

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.

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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

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Glass-Cloth-Tape-398FR?N=5002385+3293242032&rt=rud
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

Family Group

	398FR	398FRP
Liner Color Attribute Modifier: Primary	Blue	Blue
Color	White	White
Total Tape Thickness (mm)	0.18	0.18
Backing Thickness (mm)	0.13	0.13
Backing	Glass Cloth	Glass Cloth
Adhesive	Acrylic	Acrylic
Liner	HD Polyethylene Film	HD Polyethylene Film
Tensile Strength (N/cm)	227.7	227.7

ISO Statement

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

Information

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