



Technical Data Sheet

3M™ Glass Cloth Tape 398FRP

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Regulatory Info/SDS

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.
- 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

| Attribute Name | Test Method | Value |
|----------------------|-------------|-----------------------|
| Color | | White |
| Adhesive Type | | Acrylic |
| Weight | ASTM D1000 | 231 g/m² (6.8 oz/yd²) |
| Backing | | Glass Cloth |
| Backing Thickness | ASTM D3652 | 0.13 mm (5 mil) |
| Total Tape Thickness | ASTM D3652 | 0.18 mm (7 mil) |
| Liner | | HD Polyethylene Film |
| Primary Liner Color | | Blue |

Typical Performance Characteristics

| Attribute Name | Test Method | Temperature | Value |
|------------------------|-------------|---------------|----------------------------------|
| 180° Peel Adhesion | ASTM D3330 | 22 °C (72 °F) | 4.2 N/cm (38 oz/in) ¹ |
| Elongation at Break | ASTM D3759 | | 7 % |
| Tensile Strength | ASTM D3759 | | 227.7 N/cm (130 lb/in) |
| Long Term Temperature | | | 121 °C (250 °F) ² |
| Resistance | | | 121 C (230 F) - |
| Minimum Long Term | | | -29 °C (-20 °F) ² |
| Temperature Resistance | | | -29 C (-20 F) - |

^{1 12} in/min (300 mm/min)

² Long Term (day, weeks)

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.

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

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

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.

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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