



# **Technical Data Sheet**

3M™ Glass Cloth Tape 398FR

**English-US** Last Revision Date: September, 2024

Supersedes: June, 2024





Regulatory Info/SDS

### **Product Description**

3M<sup>™</sup> 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**

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	23 °C (73 °F)	4.2 N/cm (38 oz/in) <sup>1</sup>
Elongation at Break	ASTM D3759		7 %
Tensile Strength	ASTM D3759		227.7 N/cm (130 lb/in)
Long Term Temperature			121 °C (250 °F) <sup>2</sup>
Resistance			121 C (250 F) -
Minimum Long Term			-29 °C (-20 °F) <sup>2</sup>
Temperature Resistance			-29 C (-20 F) -

<sup>304</sup> mm/min (12 in/min)

<sup>&</sup>lt;sup>2</sup> 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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