3M™ High-Adhesion Glass Cloth Electrical Tape 91, with Liner

Data Sheet **December 2025**

Product Description

3M™ High-Adhesion Glass Cloth Electrical Tape 91 with liner is a white, nominal 7-mil (0.178 mm) thick tape composed of glass cloth backing coated on one side with a non-corrosive, high-temperature, flame retardant, thermosetting silicone pressure-sensitive adhesive.

- Adhesive does not require heat, moisture, or other manner of preparation to complete application.
- Supplied on removeable liner for versatility

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Properties

General Properties	*Description*	*Electrical Properties*	*Value*
Color - Visual	White	*Insulation Resistance[1] (High Humidity Method)*	≥ 50x10^6 Ω
Adhesive	Thermosetting Silicone	*Dielectric Breakdown Voltage (AC)[1]*	≥ 2.0 kV
Backing	Glass Cloth	*Dielectric Breakdown Voltage (DC)[2]*	≥ 4.0 kV
Physical Properties	*Value* *Imperial (Metric)*	*Other Properties*	*Value* *Imperial (Metric)*
Total Thickness[1]	7.0 mil ± 1.0 mil (0.178 mm ± 0.025 mm)	*Thermal conductivity[3]*	0.20 W/(m·K) ± 0.07 W/(m·K)
Adhesion to Steel[1]	≥ 34 oz/in (3.7 N/cm)	*Flame Retardant[4]*	Pass
Breaking Strength[1]	≥ 150 lb/in (263 N/cm)	*Hot Block Test[5]*	≥ 58 oz/in (6.4 N/cm)
		Torch Flame Test[6]	Pass
		The technical information and data in this table should be considered representative or typical only and should not be used for specification purposes.	

Notes:

1. ASTM D1000 Test Method – properties measured at room temperature 73°F (23°C) unless otherwise stated
2. ASTM D3755 – properties measured at room temperature 77°F (25°C) unless otherwise stated
3. ASTM D5470 – properties measured at 122°F (50°C) unless otherwise stated
4. Testing performed to the UL510A standard in a 3M Laboratory, but the product is not UL approved/recognized.
5. 3M Test Method HA-TM-000623 – 90 degree peel strength after 550°C aluminum block exposure for 20 seconds
6. 3M Test Method HA-TM-000624 – 1200°C torch flame exposure for 20 seconds

Agency Approvals & Self Certifications

- For Regulatory information including RoHS and REACH, please visit www.3M.com/regs

Availability

3M™ High-Adhesion Glass Cloth Electrical Tape 91, with liner available from 3M authorized distributors/converters.

Also available from www.3M.com/oem or call 1.800.676.8381.

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TECHNICAL STATEMENT

Intended Use: 3M™ High-Adhesion Glass Cloth Electrical Tape 91 is intended for use in certain automotive and industrial applications requiring thermal resistance, electrical insulation, and flame-retardancy.

Restricted Use: 3M advises against the use of this 3M product in any application other than the stated intended use(s), since other applications have not been evaluated by 3M and may result in an unsafe or unintended condition.

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Electrical Markets Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753
Phone: 800.676.8381
www.3M.com/oem

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