TECHFILM®
Adhesive Films and Preforms

31 Dunham Road
Billerica, MA 01821

Toll Free: (888) 832-4345
Fax: (978) 670-4956

Email: info@techfilm.com
www.techfilm.com

Adhesive F2591F

FLAME RETARDANT FILM

Description:

F2591is an electrically isolating material that features, a V-0 flammability rating, good chemical, heat, and moisture resistance. TechFilm F2591F will cure at temperatures above 130°C.

Shelf Life: (Stored in dry conditions)

One month @ 20°C Three months @ 10°C Six months @ -20°C One year @ -40°C

Cure Schedules:

Cure Schedule: 60 minutes at 150°C

Alternate Cure Schedules: 90 minutes at 140°C, 15 minutes at 150°C plus 15 minutes at 180°C, 120 minutes at 130°C, or 30 minutes at 165°C

Cured Properties:

Property	Method	Value Obtained
Color	Visual	Purple
Volume Resistivity at 25°C, Ohm-cm	ASTM D257	$>1.0 \times 10^{14}$
Tensile Shear Strength to Aluminum at 25°C, psi	ASTM D1002	1500
Flammability Rating / Total Afterflame Time for Five Specimens, seconds	ASTM D3801*	
For Specimen Thickness 0.006 inches after dry condition		V-0 / 1
For Specimen Thickness 0.006 inches after 50% RH aging		V-0 / 0
For Specimen Thickness 0.010 inches after dry condition		V-0 / 21
For Specimen Thickness 0.010 inches after 50% RH aging		V-0 / 23
Glass Transition, DSC, °C	ASTM E1356	140
Weight Loss at 150°C, TGA, 20°C/min, N_2, %	ASTM D3850	0.02
at 200°C	and MIL-STD-883	0.05
at 250°C	Section 3.8.5.1	0.36

*** - According to ASTM, ASTM D3801 is a standard made technically equivalent with ANSI/UL 94 and IEC 60695–11–10.**

All values reported above are typical values from the recommended cure, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions. Data should not be used for material specification purposes.

Rev. 120707-PLC