

## Park Electrochemical Nelcote® F-529 Phenolic Prepreg, 3K PW Reinforced

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Nelcote® F-529 is a non-halogenated phenolic resin designed specifically for use in aircraft and mass-transit interior laminate and sandwich panels. F-529 was formulated for applications requiring non-halogenated FST (flame, smoke, toxicity) performance. Key Features and Benefits: Self-Adhesive resin system for sandwich panel applications Non-Halogenated and antimony-free resin formulation Excellent FST performance Low OSU heat-release (< 20/20) Good Tack and Drape properties White color after cure for superior cosmetics Applications/Qualifications: Aircraft Interiors Mass-Transit Interiors Meets all requirements of: FAR 25.853 FAR 25.856 ATSS 1000.001 OSU 1990 Information provided by Park Electrochemical Corp.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Park-Electrochemical-Nelcote-F-529-Phenolic-Prepreg-3K-PW-Reinforced.php](http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-F-529-Phenolic-Prepreg-3K-PW-Reinforced.php)

Physical Properties	Metric	English	Comments
Volatiles	<= 3.5 % @Temperature 135 °C	<= 3.5 % @Temperature 275 °F	8 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	531 MPa @Temperature 23.9 °C	77000 psi @Temperature 75.0 °F	0° Direction, Dry; Press Cure, 16min, 300°F; ASTM D638
Tensile Modulus	57.2 GPa @Temperature 23.9 °C	8300 ksi @Temperature 75.0 °F	0° Direction, Dry; Press Cure, 16min, 300°F; ASTM D638
Compressive Strength	696 MPa @Temperature 23.9 °C	101000 psi @Temperature 75.0 °F	Dry; Press Cure, 16min, 300°F; ASTM D695
Compressive Modulus	54.5 GPa @Temperature 23.9 °C	7900 ksi @Temperature 75.0 °F	Dry; Press Cure, 16min, 300°F; ASTM D695

Optical Properties	Metric	English	Comments
Optical Density	1.0	1.0	Dm, Flaming Mode; FAR 25.853, Part 25 Appendix F, Part V

Processing Properties	Metric	English	Comments
Gel Time	7.00 min	7.00 min	
Shelf Life	6.00 Month @Temperature 4.44 °C	6.00 Month @Temperature 40.0 °F	

Descriptive Properties	Value	Comments
Burn Length (in)	1.8	Vertical Burn, 60 sec; FAR 25.853, Part 25 Appendix F, Part I (b) (4)
Climbing Drum Peel (in-lb/3in)	8	ASTM D1781; Dry, 75°F; Press Cure, 16min, 300°F
Drip	None	Vertical Burn, 60 sec; FAR 25.853, Part 25 Appendix F, Part I (b) (4)
Fabric Area Weight (g/m <sup>2</sup> )	193	
Heat Release, Peak (KW/m <sup>2</sup> )	32	FAR 25.853 Part 25 Appendix F, Part IV
Heat Release, Total (KW-min/m <sup>2</sup> )	19	FAR 25.853 Part 25 Appendix F, Part IV
Prepreg Resin Content (%)	38-44	
Resin Flow (%)	10-30	260°F, 150psi
Self Extinguish Time (sec)	0	Vertical Burn, 60 sec; FAR 25.853, Part 25 Appendix F, Part I (b) (4)

## Contact Songhan Plastic Technology Co.,Ltd.

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