

Park Electrochemical Nelcote® F-562 Phenolic Prepreg, C2 Carbonized Rayon Reinforced

Category : Polymer , Thermoset , Phenolic

Material Notes:

Nelcote® F-562 is an elastomer modified phenolic resin used in the manufacture of intermediate temperature ablative rocket nozzles, heat shields and combustion chambers in highly oxidative environments. Key Features and Benefits: Provides a combination of high-strength and ablative properties for demanding applications. Low thermal expansion. Good Tack and Drape properties. Highly toughened resin system for improved impact resistance. Applications/Qualifications: Rocket Nozzles, Combustion Chambers, Heat Shields, Exhaust Gas Management. Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-F-562-Phenolic-Prepreg-C2-Carbonized-Rayon-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	2.0 - 4.0 %	2.0 - 4.0 %	8 min
	@Temperature 135 °C	@Temperature 275 °F	
Thickness	381 microns	15.0 mil	nominal, cured, per ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.8 MPa	7800 psi	±45° Direction, Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	262 MPa	38000 psi	0° Direction, Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Elongation at Yield	7.2 %	7.2 %	Tensile; Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Modulus	2.76 GPa	400 ksi	±45° Direction, Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	12.4 GPa	1800 ksi	0° Direction, Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Strength	207 MPa	30000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Modulus	11.0 GPa	1600 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Strength	131 MPa	19000 psi	Dry; ASTM D695

Mechanical Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	Comments
Compressive Modulus	12.4 GPa @Temperature 23.9 °C	1800 ksi @Temperature 75.0 °F	Dry; ASTM D695

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

Descriptive Properties	Value	Comments
Resin Flow (%)	1-7	260°F, 150psi
Resin Solids Content (%)	30-36	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China