

## Park Electrochemical Nelcote® F-562 Phenolic Prepreg, 8HS Silica 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-8HS-Silica-Reinforced.php](http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-F-562-Phenolic-Prepreg-8HS-Silica-Reinforced.php)

Physical Properties	Metric	English	Comments
Volatiles	1.0 - 3.0 % @Temperature 135 °C	1.0 - 3.0 % @Temperature 275 °F	8 min
Thickness	559 microns	22.0 mil	nominal, cured, per ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	103 MPa @Temperature 23.9 °C	15000 psi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638
Tensile Modulus	17.2 GPa @Temperature 23.9 °C	2500 ksi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638
Flexural Strength	186 MPa @Temperature 23.9 °C	27000 psi @Temperature 75.0 °F	Dry; ASTM D790
Flexural Modulus	22.8 GPa @Temperature 23.9 °C	3300 ksi @Temperature 75.0 °F	Dry; ASTM D790
Compressive Strength	448 MPa @Temperature 23.9 °C	65000 psi @Temperature 75.0 °F	Dry; ASTM D695
Compressive Modulus	21.4 GPa @Temperature 23.9 °C	3100 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 (%)	1-5	260°F, 150psi
Resin Solids Content (%)	27-30	

## Contact Songhan Plastic Technology Co.,Ltd.

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