

Park Electrochemical Nelcote® E-722 Epoxy Prepreg, 120 Aramid Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-722 is a modified 350°F cure epoxy system with excellent processing characteristics for vacuum bag, press, and autoclave molding. Key Features and Benefits: Epoxy resin system optimized for use with woven aramid reinforcements Meets requirements of MIL-R-9300B, Type 1 Long out-time for easy processing Applications/Qualifications: Military Helicopters Engine Nacelles Work Platforms Doors Air Frames Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-722-Epoxy-Prepreg-120-Aramid-Reinforced.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------------|---------------------------------|----------|
| Volatiles | <= 3.0 % @Temperature 135 °C | <= 3.0 % @Temperature 275 °F | 8 min |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|-----------------------------------|-----------------------------|
| Flexural Strength | 359 MPa @Temperature 23.9 °C | 52000 psi @Temperature 75.0 °F | Dry; ASTM D790 |
| Flexural Modulus | 33.1 GPa @Temperature 23.9 °C | 4800 ksi @Temperature 75.0 °F | Dry; ASTM D790 |
| Shear Strength | 32.4 MPa @Temperature 23.9 °C | 4700 psi @Temperature 75.0 °F | Short-Beam, Dry; ASTM D2344 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------------------------------|-------------------------------------|----------|
| Gel Time | 1.00 - 6.00 min | 1.00 - 6.00 min | |
| Shelf Life | 12.0 Month @Temperature -17.8 °C | 12.0 Month @Temperature 0.000 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|--------------|
| Resin Flow (%) | 28-45 | 325°F, 15psi |

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