

Hexcel® F161 Epoxy Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

F161 is a structural, heat resistant and electrical grade epoxy formulation designed for autoclave curing. F161 is a high temperature, laminate grade epoxy resin with a 350°F (177°C) cure. F161 is unique in that it was the first resin system to meet all types and classes of MIL-R-9300 B. Uncured: Moderate viscosity during cure, Adaptable to offer good tack and drape for processing, Can be adapted for use on various weaves and fiber reinforcements, Nonburning system available (Bromine added); Cured: Heat resistant properties, Excellent heat aging properties (adaptable to tooling), Electrical grade formulation, Certified to MIL-R-9300 B (Types 1 and II, Grades O and D, Form B)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-F161-Epoxy-Resin.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|------------|------------|----------|
| Specific Gravity | 1.243 g/cc | 1.243 g/cc | |
| Moisture Absorption at Equilibrium | 2.8 % | 2.8 % | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------|-----------------------------|----------|
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | |
| Elongation at Yield | 2.2 % | 2.2 % | |
| Tensile Modulus | 3.59 GPa | 521 ksi | |
| Fracture Toughness | 0.433 MPa-m ^{1/2} | 0.394 ksi-in ^{1/2} | |

| Thermal Properties | Metric | English | Comments |
|---------------------------|--------------|----------------|----------|
| CTE, linear | 46.8 µm/m-°C | 26.0 µin/in-°F | |
| Glass Transition Temp, Tg | 152 °C | 306 °F | Wet |
| | 197 °C | 387 °F | Dry |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------|----------|
| Gel Time | 1.00 - 7.00 min | 1.00 - 7.00 min | |
| | @Temperature 177 °C | @Temperature 351 °F | |

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