

Ad-Tech Epoxy EL-331

Epoxy; Epoxide

Ad-Tech Plastic Systems Corp.

Message:

Ad-Tech Epoxy EL-331 is an Epoxy; Epoxide (Epoxy) product filled with silicon carbide. It can be processed by laminating and is available in North America. Applications of Ad-Tech Epoxy EL-331 include tools and coating applications.

Characteristics include:

Impact Resistant

Low Viscosity

Wear Resistant

| General Information | | | |
|------------------------------|--------------------------|-------------------|-------------|
| Filler / Reinforcement | Silicon Carbide | | |
| Features | Good Abrasion Resistance | | |
| | Good Impact Resistance | | |
| | Low Viscosity | | |
| Uses | Laminates | | |
| | Molds/Dies/Tools | | |
| | Tooling | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Laminating | | |
| Physical | Nominal Value | Unit | Test Method |
| Apparent Density | 1.35 | g/cm ³ | ASTM D1895 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 88 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 17100 | MPa | ASTM D638 |
| Tensile Strength (Break) | 186 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 1.0 | % | ASTM D638 |
| Flexural Modulus | 11100 | MPa | ASTM D790 |
| Compressive Strength | 88.5 | MPa | ASTM D695 |
| Thermal | Nominal Value | Unit | Test Method |
| CLTE - Flow | 6.1E-5 | cm/cm/°C | ASTM D696 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |

Mix Ratio by Volume: 1.0

Hardener

Mix Ratio by Weight: 14

Mix Ratio by Weight: 100

Resin

Mix Ratio by Volume: 5.1

| | | | |
|--------------------------------|--------------|-----|------------|
| Pot Life (25°C) | 20 to 30 | min | |
| Thermoset Mix Viscosity (25°C) | 3500 | cP | ASTM D2393 |
| Demold Time (25°C) | 4300 to 7200 | min | |

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