

Thermoset Plastics 300 No.18

Epoxy; Epoxide

Thermoset, Lord Chemical Products

Message:

Thermoset Plastics 300 No.18 is an Epoxy; Epoxide (Epoxy) material. It is available in North America for casting or encapsulating.

Important attributes of Thermoset Plastics 300 No.18 are:

Heat Resistant

Insulating

Typical application of Thermoset Plastics 300 No.18: Wire & Cable

| General Information | | | |
|---------------------|-------------------------|--|--|
| Features | Electrically Insulating | | |
| | Good Thermal Stability | | |
| Uses | Electronic Insulation | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Casting | | |
| | Encapsulating | | |

| Physical | Nominal Value | Unit | Test Method |
|--------------------------------|--------------------------|-------------------|-------------|
| Specific Gravity | 1.55 | g/cm ³ | ASTM D792 |
| Water Absorption (24 hr) | 0.15 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 90 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 59.3 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 2.4 | % | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 19 | J/m | ASTM D256 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 2.0E+16 | ohms · cm | ASTM D257 |
| Dielectric Constant (1 MHz) | 4.10 | | ASTM D150 |
| Dissipation Factor (1 MHz) | 0.022 | | ASTM D150 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Hardener | Mix Ratio by Weight: 7.0 | | |
| Resin | Mix Ratio by Weight: 100 | | |
| Thermoset Mix Viscosity (25°C) | 12000 | cP | ASTM D2393 |
| Demold Time (25°C) | 1400 | min | |

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