

Aremco Aremco-Bond™ 2315X High Temperature Epoxide Potting Compound

Category : Polymer , Thermoset , Epoxy , Epoxy, High Temperature

Material Notes:

Improved Crack Resistance & Bond Strength. High Temperature Resistance, Thermally Conductive, Low Viscosity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-2315X-High-Temperature-Epoxide-Potting-Compound.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------|---------------------------|----------------|
| Density | 1.95 g/cc | 0.0704 lb/in ³ | |
| Viscosity | 4000 cP | 4000 cP | Mixed |
| Linear Mold Shrinkage | 0.00300 cm/cm | 0.00300 in/in | cure shrinkage |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|-----------|----------|
| Hardness, Shore D | 92.0 | 92.0 | |
| Flexural Strength | 84.8 MPa | 12300 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------------|------------------------------------|----------|
| CTE, linear | 34.2 µm/m-°C | 19.0 µin/in-°F | |
| Thermal Conductivity | 1.21 W/m-K | 8.40 BTU-in/hr-ft ² -°F | |
| Maximum Service Temperature, Air | 185 °C | 365 °F | |
| Minimum Service Temperature, Air | -55.0 °C | -67.0 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | |
| Dielectric Constant | 4.70 | 4.70 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 18.9 kV/mm | 480 kV/in | |
| Dissipation Factor | 0.0100 | 0.0100 | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|---------------------|-----------------------------------|
| Cure Time | 120 min | 2.00 hour | Step 1 of recommended 2 step cure |
| | @Temperature 71.1 °C | @Temperature 160 °F | |
| | 120 min | 2.00 hour | |

| Processing Properties | Metric @ Temperature 149 °C | English @ Temperature 300 °F | Step 2 of recommended 2 step cure Comments |
|-----------------------|--------------------------------|---------------------------------|---|
| | 240 min | 4.00 hour | Alternate |
| | @Temperature 104 °C | @Temperature 220 °F | |
| Pot Life | >= 480 min | >= 480 min | 100 gm mass |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------|----------|
| Chemical Resistance | Excellent | |
| Color | Black | |
| Mix Ratio | 100:25 | |

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