

Aremco Aremco-Bond™ 807 High Performance Epoxide

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

10 Minute Set, Non-Sagging, 1:1, Excellent Electrical & Mechanical Properties

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-807-High-Performance-Epoxye.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------------|
| Specific Gravity | 1.39 g/cc | 1.39 g/cc | |
| Viscosity | 75000 cP | 75000 cP | Mixed Viscosity |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|---------------|
| Hardness, Shore D | 73 | 73 | |
| Shear Strength | 7.826 MPa | 1135 psi | ASTM D1002-94 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---|---|----------------|
| CTE, linear | 59.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 32.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ | |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Maximum Service Temperature, Air | 130 °C | 266 °F | |
| Minimum Service Temperature, Air | -55.0 °C | -67.0 °F | |
| Shrinkage | 0.90 % | 0.90 % | Cure Shrinkage |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------|
| Volume Resistivity | 2.00e+14 ohm-cm | 2.00e+14 ohm-cm | |
| Dielectric Constant | 4.4 | 4.4 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 15.0 kV/mm | 380 kV/in | |
| Dissipation Factor | 0.030 | 0.030 | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|----------|
| Cure Time | 60.0 min | 1.00 hour | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 15.0 min | 15.0 min | |

| | | | |
|-----------------------|-----------------------|-----------------------|-------------|
| Pot Life | Metric | English | 100 gm mass |
| Processing Properties | @ Temperature 25.0 °C | @ Temperature 77.0 °F | Comments |

| Descriptive Properties | Value | Comments |
|------------------------|-----------|----------------|
| Chemical Resistance | Excellent | |
| Color | Gray | |
| Mix Ratio By Weight | 1:1 | resin:hardener |

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