

Tra-Con Tra-Bond F202 Spectrally Transparent High Temperature Epoxy Adhesive

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

Material Notes:

TRA-BOND F202 is a clear, low viscosity epoxy adhesive recommended for photonic applications requiring exposure to high temperatures or chemical and environmental resistance. This 100% solids system exhibits low exotherm during its short cure cycle and for most applications does not require degassing. It is an excellent choice for adhering to metals, glass and ceramics as well as most plastics. The unique chemistry of TRA-BOND F202 has been successfully used in fiber optic connectors as well as small electronic castings and plastic laminates. For casting applications, use a step cure schedule of 2 hours at 65°C plus 3 hours @ 125°C, followed by a post-cure of 1 hour at 150°C if high temperature resistance is required. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-F202-Spectrally-Transparent-High-Temperature-Epoxy-Adhesive.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------------|---------------------------------|-------------------------|
| Specific Gravity | 1.18 g/cc | 1.18 g/cc | Mixed |
| Solids Content | 100 % | 100 % | Reactive Solids Content |
| Viscosity | 1000 cP @Temperature 25.0 °C | 1000 cP @Temperature 77.0 °F | After mixing |

| Mechanical Properties | Metric | English | Comments |
|------------------------|------------|----------------|-------------------------|
| Hardness, Shore D | 87 | 87 | |
| Adhesive Bond Strength | 20.7 MPa | 3000 psi | Lap shear, alum to alum |
| Izod Impact, Notched | 0.155 J/cm | 0.290 ft-lb/in | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|----------|-------------|
| Maximum Service Temperature, Air | 265 °C | 509 °F | |
| Minimum Service Temperature, Air | -60.0 °C | -76.0 °F | |
| Glass Transition Temp, Tg | 130 °C | 266 °F | Ultimate Tg |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------------|
| Transmission, Visible | 90 % | 90 % | transparent; thickness not quantified |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------|-----------|---|
| Cure Time | 60.0 min | 1.00 hour | 1/2 hr @ 135°C + 1/2 hr @ 175°C (optimum properties) |
| | 180 min | 3.00 hour | 2 hrs @ 125°C + 1 hr @ 140°C |
| Pot Life | 7200 min | 7200 min | (5 days) |

| Descriptive Properties | Value | Comments |
|----------------------------|-------------|----------------|
| Color | Water White | |
| Mix Ratio, parts by weight | 100/3 | Resin/Hardener |

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