

Tra-Con Tra-Bond 2158 Heat Conductive Electrically Insulating Compound

Category : Polymer , Thermoset , Epoxy , Epoxy, Thermally Conductive

Material Notes:

TRA-BOND 2158 is a flexible, thermal conductive epoxy system. It is used for staking transistors, diodes, resistors, integrated circuits and other heat-sensitive components to printed circuit boards. This two-part adhesive develops strong, durable, high-impact bonds at room temperature which improve heat transfer while maintaining electrical insulation. TRA-BOND 2158 bonds readily to itself, and to metals, silica, steatite, alumina, sapphire and other ceramics, glass, plastics and many other materials, because its coefficient of thermal expansion provides a good match for those materials over a fairly wide temperature range. Fully cured TRA-BOND 2158 provides excellent resistance to salt solutions, mild acids and alkalis, and many other chemicals including petroleum solvents, lubricating oils, and alcohol. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2158-Heat-Conductive-Electrically-Insulating-Compound.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------------------------|----------------------------------|-------------------------|
| Specific Gravity | 2.30 g/cc | 2.30 g/cc | Mixed |
| Solids Content | 100 % | 100 % | Reactive Solids Content |
| Viscosity | 15000 cP @Temperature 25.0 °C | 15000 cP @Temperature 77.0 °F | After mixing |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Hardness, Shore D | 60 | 60 | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-------------|------------------------------------|----------|
| Thermal Conductivity | 0.840 W/m-K | 5.83 BTU-in/hr-ft ² -°F | |
| Maximum Service Temperature, Air | 125 °C | 257 °F | |
| Minimum Service Temperature, Air | -70.0 °C | -94.0 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---|--|----------|
| Volume Resistivity | 2.10e+15 ohm-cm | 2.10e+15 ohm-cm | |
| | 3.20e+13 ohm-cm @Temperature 75.0 °C | 3.20e+13 ohm-cm @Temperature 167 °F | |
| Dielectric Constant | 5.9 | 5.9 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 16.1 kV/mm | 410 kV/in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------|
| Dielectric Factor | @Frequency 1000 Hz | @Frequency 1000 Hz | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|----------|
| Cure Time | 120 - 240 min | 2.00 - 4.00 hour | |
| | @Temperature 65.0 °C | @Temperature 149 °F | |
| Pot Life | 1440 min | 24.0 hour | |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| Pot Life | 180 min | 180 min | |

| Descriptive Properties | Value | Comments |
|----------------------------|--------|----------------|
| Color | Tan | |
| Mix Ratio, parts by weight | 100/38 | Resin/Hardener |

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