

Tra-Con Tra-Bond FS152C Clear Low Viscosity Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND FS152C is a low viscosity epoxy system containing no solvents, cures at room temperature and has excellent flow and wetting characteristics. This two-part adhesive mixes easily and develops strong, durable, tough bonds to most clean, dry material surfaces including metals, ceramics, glass, wood and many plastics. Its low viscosity readily facilitates bubble release and degassing, and it has a surface dry time of 6 hours at room temperature. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS152C-Clear-Low-Viscosity-Epoxy-Adhesive.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------|--------------------------------|-------------------------|
| Specific Gravity | 1.17 g/cc | 1.17 g/cc | Mixed |
| Solids Content | 100 % | 100 % | Reactive Solids Content |
| Viscosity | 700 cP @Temperature 25.0 °C | 700 cP @Temperature 77.0 °F | After mixing |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Hardness, Shore D | 76 | 76 | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------|
| CTE, linear | 58.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C | 32.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F | |
| Maximum Service Temperature, Air | 110 °C | 230 °F | |
| Minimum Service Temperature, Air | -60.0 °C | -76.0 °F | |

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

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------------|-----------------------------|----------|
| Dielectric Constant | 4.0 @Frequency 1000 Hz | 4.0 @Frequency 1000 Hz | |
| Dielectric Strength | 16.1 kV/mm | 410 kV/in | |
| Dissipation Factor | 0.020 @Frequency 1000 Hz | 0.020 @Frequency 1000 Hz | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|----------|
| Cure Time | 240 min | 4.00 hour | |
| | @Temperature 65.0 °C | @Temperature 149 °F | |
| | 4320 min | 72.0 hour | |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| Pot Life | 60 min | 60 min | |

| Descriptive Properties | Value | Comments |
|----------------------------|--------|----------------|
| Color | Clear | |
| Mix Ratio, parts by weight | 100/30 | Resin/Hardener |

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