# CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO 9001 REGISTERED QUALITY SYSTEM SINCE 1981

**TECHNICAL BULLETIN:** **CLS 9616**

**PRODUCT DESCRIPTION:**

A LOW VISCOSITY, SINGLE COMPONENT, EPOXY POTTING AND ENCAPSULATING COMPOUND. THE PRODUCT HAS EXCELLENT STABILITY AND GOOD ADHESION TO A WIDE RANGE OF SUBSTRATES. THIS PRODUCT MEETS UL94-HB FLAMMABILITY REQUIREMENTS.

| SALES SPECIFICATION | CLS 9616 |
|---|---|
| COLOUR | BLACK |
| VISCOSITY (NOTE 1, NOTE 4) | 12000 - 20000 CPS @ 20 °C |
| SPECIFIC GRAVITY | 1.62 ± 0.03 gm/cm³ |
| SHELF LIFE | 3 MONTHS |

**HANDLING:**

| | |
|---|---|
| MIXED VISCOSITY (NOTE 4) | 16000 cps @ 22 ºC |
| POT LIFE OF 200 gm. mass (NOTE 4) | 90.00 Days. @ 20 ºC |
| GEL TIME OF 15 gm. mass (NOTE 4) | 90.00 Min. @ 100 ºC |

**HIGH TEMPERATURE CURE SCHEDULE**

FOR MAXIUM HIGH TEMPERATURE PERFORMANCE:
CURE @ 100°C FOR 4 HOURS
POST CURE @150°C FOR 4 HOURS

**CURE SCHEDULE (NOTE 3):**

| | |
|---|---|
| RECOMMENDED CURE SCHEDULE | 2 Hrs. @ 100 ºC |
| POST CURE | 4 Hrs. @ 125 ºC |

**CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)**

| | |
|---|---|
| COLOUR | BLACK |
| DENSITY (gm/cm³) | 1.62 |
| SHORE HARDNESS | 70D |
| TENSILE STRENGTH (psi) (ASTM D 638) | 1500 |
| TENSILE ELONGATION (%) (ASTM D 638) | 25.0 |
| FLAMABILITY RATING | UL94-HB (130c.) |
| GUIDE TO OPERATING TEMPERATURE(°C)(NOTE 6) | 155 |
| LINEAR SHRINKAGE (in/in) (ASTM D 2566) | 0.0070 |
| MOISTURE ABSORBTION (% 24 Hours RT) | 0.200 |
| COEFFICIENT OF THERMAL EXPANSION (in/in/°C) | 125 x10^-6 |
| THERMAL CYCLE FROM (CELSIUS) | -55 |
| THERMAL CYCLE TO (CELSIUS) | 155 |
| THERMAL CYCLES | 10 |

| ELECTRICAL PROPERTIES | | |
|---|---|---|
| **DISSIPATION FACTOR A** | @1 | 0.0040 |
| **DIELECTRIC STRENGTH** | 450 Volts/Mil | 125.0 Mil/Section |
| **VOLUME RESISTIVITY** | | 50 x10^14 ohm•cm |

## NOTES

Note1 If a filled resin, settling may occur during transportation or storage. Fillers must be remixed before use.

Note2 Mix ratio must be within ± 2% of the stated amount and thorough mixing is required to avoid degraded final properties.

Note3 Other cure schedules may give satisfactory results, however, these should be determined by the customer for their given circumstances.

Note4 All measurements taken at 22ºC unless otherwise specified.

Note5 These products may trigger allergic responses in some individuals. Prevent contact with skin, wash with plenty of soap and water immediately if contact occurs. Do not breathe vapours, provide good ventilation and exercise good housekeeping at work area. Read the Material Safety Data Sheet.

Note6 The “Guide to Operating Temperature” is based on our experience with materials of similar chemistry and/or thermal index. The ultimate suitability of this product for a given operating temperature is application dependent and may change according to the demands placed upon it in operation.

Note7 If indicated, the values under “Electrical Characteristics” may be based on supplier data for products with similar compositions. They are provided only as a guide and the recipient must test each material to determine its suitability for the intended application.

## IMPORTANT



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