



CROSSLINK TECHNOLOGY INC.
FORMULATED EPOXIES, URETHANES • CUSTOM CAST ELECTRICAL PARTS



“Our strength is in our formulations”

TECHNICAL BULLETIN:

CLR 1157 /CLH 5515

PRODUCT DESCRIPTION: A TWO COMPONENT, HEAT CURE EPOXY SYSTEM SPECIFICALLY DEVELOPED FOR USE ON INSTRUMENT AND POWER TRANSFORMERS. THE CURED MATERIAL EXHIBITS EXCELLENT THERMAL STABILITY AND THERMAL CYCLING CHARACTERISTICS.

SALES SPECIFICATION:

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COLOUR	RED	AMBER
VISCOSITY (NOTE 1)	10,000-20,000 cps @75°C	16,000-30,000 cps @45°C
SPECIFIC GRAVITY	1.70-1.75 gm/cm ³	1.16 gm/cm ³
SHELF LIFE	12 MONTHS	12 MONTHS

HANDLING: (NOTES 1, 2 & 5)

1. MIX RATIO BY WEIGHT (A:B)(NOTE 2)	100:50
2. VISCOSITY (NOTE 4)	1,500-3,000 cps @ 65°C
3. POT LIFE OF 200 gm MASS (NOTE 4)	30 MINUTES @ 125°C
4. GEL TIME (NOTE 4)	40 MINUTES @ 125°C

CURE SCHEDULE: (NOTE 3)

7 HOURS @ 125°C

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	RED
DENSITY	1.47-1.50 gm/cm ³
SHORE HARDNESS	75/65D
LINEAR SHRINKAGE	0.8%
TENSILE STRENGTH	1,500-2,100 psi
ELONGATION	80-110%
GUIDE TO OPERATING TEMPERATURE	155°C
THERMAL EXPANSION COEFFICIENT (in/in/°C X 10 ⁶)	40
THERMAL CONDUCTIVITY (CAL/SEC)(SQ CM)(°C)(CM)	30 X 10 ⁻⁴
MOISTURE ABSORPTION (24 hr IMMERSION)	0.2%
FLAMMABILITY	UL 94HB

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ELECTRICAL CHARACTERISTICS: (NOTE 6)

DIELECTRIC STRENGTH		400 v/mil
ARC RESISTANCE		210 seconds
DIELECTRIC CONSTANT	@ 25°C 1 KHz	4.9
DISSIPATION FACTOR	@ 25°C 1 KHz	0.043
VOLUME RESISTIVITY	@ 25°C	7 X 10 ¹³
TRACKING INCLINED PLANE		300 min.

NOTES:

- 1) If a filled resin, settling may occur during transportation or storage. Fillers must be remixed before use.
- 2) The mix ratio must be within ± 2% of the stated value and thorough mixing is required to avoid degraded properties.
- 3) Other cure schedules may yield satisfactory results however; these should be determined by the customer for his given application.
- 4) Unless otherwise specified, all measurements are taken at 22⁰C.
- 5) These products may trigger allergic reactions in some individuals. Prevent contact with skin; wash with plenty of soap and water if contact occurs and **Read the Material Safety Data Sheet** before using the materials. **Do Not Breathe Vapours** provide good ventilation and exercise good housekeeping at the work area.
- 6) 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.
- 7) If stated, the “**Guide to Operating Temperature**” is based on our experience with materials of similar chemistry and/or thermal index. The ultimate suitability of a product for a particular operating temperature is application dependent and **may change according to the demands placed upon it in service.**

IMPORTANT

THE INFORMATION IN THIS BULLETIN IS BASED ON DATA OBTAINED BY OUR OWN RESEARCH AND IS CONSIDERED ACCURATE. ALL INFORMATION SUPPLIED BY CROSSLINK TECHNOLOGY INC., IS FURNISHED UPON THE EXPRESS CONDITION THAT THE PERSON RECEIVING THE PRODUCT SHALL MAKE THEIR OWN ASSESSMENT TO DETERMINE ITS SUITABILITY FOR THEIR PARTICULAR PURPOSE. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING SUCH INFORMATION, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF; THAT ANY PRODUCT SHALL BE MERCANTABLE OR FIT FOR ANY PARTICULAR PURPOSE; OR THAT THE USE OF SUCH OTHER INFORMATION OR PRODUCT WILL NOT INFRINGE ANY PATENT.

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