EPOXY CASTING/POTTING COMPOUND

TECHNICAL BULLETIN: **CLR 1030 / CLH 6450**

PRODUCT DESCRIPTION: A TWO COMPONENT, ROOM TEMPERATURE CURE EPOXY COMPOUND SPECIFICALLY DEVELOPED FOR THE ENCASEMENT OF ELECTRONIC OR ELECTRICAL MODULES.

SALES SPECIFICATION:	**CLR 1030**	**CLH 6450**
COLOUR:	TAN	AMBER
VISCOSITY (NOTE 1):	30,000 - 50,000 cps	300 - 500 cps
SPECIFIC GRAVITY:	1.56-1.64 gm/cm^3	0.93-0.99 gm/cm^3
SHELF LIFE:	1 YEAR	1 YEAR

HANDLING:

1. MIX RATIO BY WEIGHT (A:B)(NOTE 2): 100:25
2. VISCOSITY (NOTE 4): ..... 3,000-5,000 cps
3. POT LIFE OF 200 gm MASS (NOTE 4): ..... 20 MINUTES
4. GEL TIME (NOTE 4): ..... 45 MINUTES
5. PEAK EXOTHERM OF 200 gm MASS: ..... 90^{0}C

CURE SCHEDULE (NOTE 3):

12-24 HOURS @ 23^{0}C OR 2 HOURS @ 60^{0}C

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR: ..... TAN
DENSITY: ..... 1.41 gm/cm^3
SHORE HARDNESS: 85D
LINEAR SHRINKAGE: ..... 004 in/in
TENSILE STRENGTH: ..... 6,000 psi
ELONGATION: 5.0%
GUIDE TO OPERATING TEMPERATURE: ..... 105^{0}C
THERMAL EXPANSION COEFFICIENT (in/in/^{0}C X 10^6): 30
THERMAL CONDUCTIVITY (CAL/SEC)(SQ CM)(^{0}C)(CM): ..... 12 x 10^{-4}
MOISTURE ABSORPTION (24 HR IMMERSION): ..... < 0.1%

…Page 2

TYPICAL ELECTRICAL CHARACTERISTICS (NOTE 6):

DIELECTRIC STRENGTH:			600 v/mil
ARC RESISTANCE:			N/A
DIELECTRIC CONSTANT:	@ 25^0C	1 KHz	4.4
DISSIPATION FACTOR:	@ 25^0C	1 KHz	0.0124
VOLUME RESISTIVITY:	@ 25^0C	OHM-CM	5×10^{14}

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 22^0C.

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 HIS OWN ASSESSMENTS TO DETERMINE IT'S SUITABILITY FOR HIS 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 MERCHANTIBLE 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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