



Our Strength Is In Our Formulations

TECHNICAL BULLETIN:

CLR 1190 / CLH 6560

PRODUCT DESCRIPTION: AN EXCEPTIONAL EPOXY CASTING SYSTEM WITH EXCELLENT LOW TEMPERATURE THERMAL AND MECHANICAL SHOCK RESISTANCE.

SALES SPECIFICATION:

CLR 1190

CLH 6560

COLOUR	AMBER	AMBER
VISCOSITY (note 4)	15,000-20,000 cps	10-25 cps
SPECIFIC GRAVITY (gm/cm ³)	1.16+/- 0.03	1.01+/-0.03
SHELF LIFE (months)	12 months	12 months

HANDLING: (NOTES 1, 2 & 5)

MIX RATIO BY WEIGHT (A:B)(note 2)	100:30
MIXED VISCOSITY (NOTE 4)	600 - 1000 cps
POT LIFE (200 gm mass)(NOTE 4)	40 MINUTES
GEL TIME (200 gm mass)(NOTE 4)	50 MINUTES
PEAK EXOTHERM OF 200gm. MASS	229°C

CURE SCHEDULE: (NOTE 3)

HANDLING STRENGTH / DEMOULD TIME	2-4 HOURS @ RT.
RECOMMENDED CURE SCHEDULE:	4 HOURS @ 60°C
ALTERNATE CURE SCHEDULE:	7 DAYS @ R.T.

CURED PROPERTIES: (not intended for preparation of specifications)

COLOUR	AMBER
SHORE HARDNESS	79D
LINEAR SHRINKAGE	0.006 in/in
HDT	60°C
TENSILE STRENGTH	8,500 psi
TENSILE ELONGATION	12 %
TENSILE MODULUS	350,000
FLEXURAL STRENGTH	14,000 psi
FLEXURAL MODULUS	400,000 psi
COMPRESSIVE STRENGTH AT FAILURE	30,500 psi
GUIDE TO OPERATING TEMPERATURE (RELATIVE THERMAL INDEX)	155°C.

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ELECTRICAL PROPERTIES: (NOTE 6)

DIELECTRIC STRENGTH, VOLTS/MIL	1/8"	475
VOLUME RESISTIVITY, @ 23 ⁰ C, MEGOHM-CM		>6 X 10 ⁷
DIELECTRIC CONSTANT, 1KHz @ 23 ⁰ C		5.0
DISSIPATION FACTOR, 1KHz @ 23 ⁰ C		0011
ARC RESISTANCE		110 SEC.

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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