Our strength is in our formulations

TECHNICAL BULLETIN: CLR 1122 / CLH 6870

PRODUCT DESCRIPTION:
A TWO COMPONENT, HIGH OPERATING TEMPERATURE, FILLED EPOXY CASTING SYSTEM. THE SYSTEM WAS SPECIFICALLY DEVELOPED TO ENCAPSULATE ELECTRICAL COMPONENTS THAT REQUIRE EXCELLENT CHEMICAL RESISTANCE AND HIGH TEMPERATURE RESISTANCE. A POST CURE TO ACHIEVE OPTIMUM PHYSICAL PROPERTIES IS REQUIRED.

SALES SPECIFICATIONS: CLR 1122 CLH 6870
COLOR BLUE AMBER
VISCOSITY (NOTE 1, NOTE 4) 50,000 - 80,000 cps 500 - 1,000 cps
SPECIFIC GRAVITY 1.60 ± 0.03 gm/cm³ 0.97 ± 0.02 gm/cm³
SHELF LIFE 12 MONTHS 12 MONTHS

HANDLING:
MIX RATIO BY WEIGHT (A:B) (NOTE 2) 100:15.0
MIXED VISCOSITY (NOTE 4) 15,000 cps @ 22 ºC
POT LIFE OF 200 gm. mass (NOTE 4) 60 Min. @ 22 ºC
GEL TIME OF 200 gm. mass (NOTE 4) 2.0 Hrs. @ 22 ºC

CURE SCHEDULE (NOTE 3):
RECOMMENDED CURE SCHEDULE: 4 Hrs. @ 60 ºC + 2 Hrs. @ 100 ºC
OPTIONAL POSTCURE 2 Hrs. @ 125 ºC

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)
COLOUR BLUE
DENSITY (gm/cm³) 1.48
SHORE HARDNESS 89D
TENSILE STRENGTH (psi) (ASTM D 638) 7,000
TENSILE ELONGATION (%) (ASTM D 638) 2.3
THERMAL CONDUCTIVITY (Cal/Sec.Cm.°C) 12X10^-4
FLEXURAL STRENGTH (psi) 12,000
FLEXURAL MODULUS (psi) 650,000
COMPRESSIVE STRENGTH (psi) 18,000
ELECTRICAL PROPERTIES:

NOTES

Note 1 If a filled resin, setting may occur during transportation or storage. Fillers must be remixed before use.

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

Note 3 Other cure schedules may give satisfactory results, however, these should be determined by the customer for their given circumstances.

Note 4 All measurements taken at 22°C unless otherwise specified.

Note 5 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 and observe.

Note 6 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.

Note 7 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

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 ASSESSMENTS TO DETERMINE IT’S 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 MERCHANTABILITY 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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