CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO 9001 REGISTERED QUALITY SYSTEM SINCE 1981

TECHNICAL BULLETIN: **CLR 1331 / CLH 5515**

PRODUCT DESCRIPTION:

A TWO COMPONENT, HEAT CURED EPOXY SYSTEM, DEVELOPED SPECIFICALLY FOR USE ON INSTRUMENT AND POWER TRANSFORMERS. THE CURED MATERIAL EXHIBITS EXCELLENT THERMAL STABILTY AND THERMAL CYCLING PERFORMANCE. PRODUCT MEETS UL94-HB FLAMABILITY REQUIREMENTS.

SALES SPECIFICATION	CLR 1331	CLH 5515
COLOUR	GREY	AMBER
VISCOSITY (NOTE 1, NOTE 4)	20000 - 35000 CPS @ 70 °C	5000 - 15000 CPS @ 45 °C
SPECIFIC GRAVITY	1.85 ± 0.03 gm/cm³	1.16 ± 0.02 gm/cm³
SHELF LIFE	12 MONTHS	12 MONTHS

HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:50 (by vol. 100:80.0)
MIXED VISCOSITY (NOTE 4)	4000 cps @ 65 ºC
POT LIFE OF 200 gm. mass (NOTE 4)	25.00 Min. @ 125 ºC
GEL TIME OF 200 gm. mass (NOTE 4)	40.00 Min. @ 125 ºC

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE	4 Hrs. @ 125 ºC
OPIONAL POST CURE	150 @ 150 ºC

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	GREY
DENSITY (gm/cm³)	1.54
SHORE HARDNESS	82D
TENSILE STRENGTH (psi) (ASTM D 638)	3850
TENSILE ELONGATION (%) (ASTM D 638)	37.5
FLAMABILITY RATING	UL94-HB (130c.)
GUIDE TO OPERATING TEMPERATURE(°C)(NOTE 6)	180
LINEAR SHRINKAGE (in/in) (ASTM D 2566)	0.0080
COEFFICIENT OF THERMAL EXPANSION (in/in/°C)	40X10^-6
THERMAL CONDUCTIVITY W/(m•K)	15X10^-4

ELECTRICAL PROPERTIES		
DIELECTRIC CONSTANT	@1 KHz	3.50
DISSIPATION FACTOR A	@1 KHz	0.0200
DIELECTRIC STRENGTH	425 Volts/Mil	62.5 Mil/Section
ARC RESISTANCE		180 Seconds
VOLUME RESISTIVITY		300 x10^14 Ω•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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