CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO 9001 REGISTERED QUALITY SYSTEM SINCE 1981

TECHNICAL BULLETIN: **CLR 1876 / CLH 6631**

PRODUCT DESCRIPTION:

A THERMALLY CONDUCTIVE, HEAT CURE, TWO PART EPOXY SYSTEM. THE SYSTEM WAS SPECIFICALLY DESIGNED FOR APPLICATIONS WHERE HEAT DISSIPATION ON THERMALLY SENSITIVE DEVICES IS REQUIRED.

SALES SPECIFICATION	CLR 1876	CLH 6631
COLOUR	BLACK	DARK AMBER
VISCOSITY (NOTE 1, NOTE 4)	45000 - 65000 CPS @ 22 °C	100 - 300 CPS @ 22 °C
SPECIFIC GRAVITY	2.36 ± 0.03 gm/cm³	0.99 ± 0.02 gm/cm³
SHELF LIFE	12 MONTHS	12 MONTHS

HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:6
MIXED VISCOSITY (NOTE 4)	30000 cps @ 22 ºC
POT LIFE OF 200 gm. mass (NOTE 4)	2.00 Hrs. @ 22 ºC
GEL TIME OF 200 gm. mass (NOTE 4)	5.00 Hrs. @ 22 ºC

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE	16 Hrs. @ 22 ºC
POST CURE	4 Hrs. @ 125 ºC
OPIONAL POST CURE	150 @ 150 ºC

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	BLACK
DENSITY (gm/cm³)	2.28
SHORE HARDNESS	90D
TENSILE STRENGTH (psi) (ASTM D 638)	8500
FLEXURAL STRENGTH (psi)	14000
GUIDE TO OPERATING TEMPERATURE(°C)(NOTE 6)	180
LINEAR SHRINKAGE (in/in) (ASTM D 2566)	0.0010
MOISTURE ABSORBTION (% 24 Hours RT)	0.100
THERMAL CONDUCTIVITY W/(m•K)	35X10^-4

ELECTRICAL PROPERTIES		
DIELECTRIC CONSTANT	@1 KHz	6.60
DISSIPATION FACTOR A	@1 KHz	0.0120
DIELECTRIC STRENGTH	500 Volts/Mil	125.0 Mil/Section
VOLUME RESISTIVITY		200 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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