

CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO 9001 REGISTERED QUALITY SYSTEM

SINCE 1981

Our strength is in our formulations

TECHNICAL BULLETIN:

CLR 1190 / CLH 5515

PRODUCT DESCRIPTION:

A TWO COMPONENT, UNFILLED, HEAT CURE EPOXY SYSTEM. IT WAS SPECIFICALLY DEVELOPED FOR IMPREGNATING COILS. THE CURED MATERIAL EXHIBITS EXCELLENT THERMAL STABILITY AND THERMAL CYCLING CHARACTERISTICS.

SALES SPECIFICATIONS:	CLR 1190	CLH 5515
COLOR	AMBER	AMBER
VISCOSITY (NOTE 1, NOTE 4)	14,000 - 20,000 cps	5,000 - 15,000 cps @ 45 °C
SPECIFIC GRAVITY	1.14 - 1.18 gm/cm³	1.16 ± 0.02 gm/cm ³
SHELF LIFE	12 MONTHS	12 MONTHS
HANDLING:		
MIX RATIO BY WEIGHT (A:B) (NOTE 2)		100:150.0
MIXED VISCOSITY (NOTE 4)		2,250 cps @ 60 °C
POT LIFE OF 200 gm. mass (NOTE 4)		90 Min. @ 85 °C
GEL TIME OF 200 gm. mass (NOTE 4)		2.0 Hrs. @ 100 °C

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE:	4 Hrs. @ 125 °C
ALTERNATE CURE SCHEDULE:	8 Hrs. @ 100 °C
OPTIONAL POSTCURE	2 Hrs. @ 150 °C

CURED PROPERTIES:	(NOT INTENDED FOR PREPARATION O	F SPECIFICATIONS)
COLOUR		AMBER
DENSITY (gm/cm ³)		1.15
SHORE HARDNESS		70D
GUIDE TO OPERATING T	EMPERATURE (°C) (Note 6)	155
LINEAR SHRINKAGE (in/in) (ASTM D 2566)		0.0200
TENSILE STRENGTH (psi	i) (ASTM D 638)	3,700
TENSILE ELONGATION (9	%) (ASTM D 638)	100.0
COEFFICIENT OF THERM	/IAL EXPANSION (in/in/°C)	180X10^-6
THERMAL CONDUCTIVIT	Y (Cal/Sec.Cm.°C)	4.5X10^-4
MOISTURE ABSORPTION	۱ (%)	0.200

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ELECTRICAL PROPERTIES:				
DIELECTRIC CONSTANT	@1 KHz	3.50		
DISSIPATION FACTOR	@1 KHz	0.0200		
DIELECTRIC STRENGTH	62 Mil/Section	380 Volts/Mil		
ARC RESISTANCE		170 Seconds		
VOLUME RESISTIVITY		5.0 x10^14 Ohm/Cm		

NOTES

Note1 If a filled resin, setting may occur during transportation or storage. Fillers must be remixed before use.

Note2 Mix ratio must be within $\pm 2\%$ 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 22°C 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 and obser.

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

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 ASSESMENTS 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 MERCHANTABLE 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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