CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO 9001 REGISTERED QUALITY SYSTEM SINCE 1981

TECHNICAL BULLETIN: **CLS 9600**

PRODUCT DESCRIPTION:

A SINGLE COMPONENT, 100% SOLIDS, LOW VISCOSITY, IMPREGNATING COMPOUND FOR COILS AND TRANSFORMERS. THIS PRODUCT IS ALSO SUITABLE FOR SAND CASTING.

SALES SPECIFICATION	CLS 9600
COLOUR	AMBER
VISCOSITY (NOTE 1, NOTE 4)	800 - 1600 CPS @ 22 °C
SPECIFIC GRAVITY	1.15 ± 0.03 gm/cm³
SHELF LIFE	3 MONTHS

HANDLING:

MIXED VISCOSITY (NOTE 4)	1100 cps @ 22 ºC
GEL TIME OF 15 gm. mass (NOTE 4)	25.00 Min. @ 125 ºC

POST CURE

TO OBTAIN ULTIMATE HIGH TEMPERATURE PROPERTIES POST CURE @ 150°C FOR 2 HOURS

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE	4 Hrs. @ 125 ºC

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	AMBER
DENSITY (gm/cm³)	1.15
SHORE HARDNESS	85D
TENSILE STRENGTH (psi) (ASTM D 638)	6500
TENSILE ELONGATION (%) (ASTM D 638)	7.0
HDT(°C) (ASTM D 648)	64
FLEXURAL STRENGTH (psi)	9600
GUIDE TO OPERATING TEMPERATURE(°C)(NOTE 6)	220
LINEAR SHRINKAGE (in/in) (ASTM D 2566)	0.0080
COEFFICIENT OF THERMAL EXPANSION (in/in/°C)	65X10^-6
THERMAL CONDUCTIVITY W/(m•K)	0.3

ELECTRICAL PROPERTIES		
DISSIPATION FACTOR A	@1	0.0100
DIELECTRIC STRENGTH	900 Volts/Mil	10.0 Mil/Section
ARC RESISTANCE		180 Seconds
VOLUME RESISTIVITY		300 x10^14 ohm•cm 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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