CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO 9001 REGISTERED QUALITY SYSTEM SINCE 1981

TECHNICAL BULLETIN: **CLR 1796 / CLH 6580**

PRODUCT DESCRIPTION:

A TWO COMPONENT, LOW VISCOSITY, ROOM TEMPERATURE CURE EPOXY SYSTEM. MATERIAL HAS YELLOW CARD UL94-V0 RATING, AND CONTAINS NON ABRASIVE FILLERS SUITABLE FOR METER MIX DISPENSE.

SALES SPECIFICATION	CLR 1796	CLH 6580
COLOUR	BLACK	AMBER
VISCOSITY (NOTE 1, NOTE 4)	30000 - 50000 CPS @ 22 °C	20 - 50 CPS @ 22 °C
SPECIFIC GRAVITY	1.55 ± 0.03 gm/cm³	0.95 ± 0.02 gm/cm³
SHELF LIFE	12 MONTHS	12 MONTHS

HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:9 (by vol. 100:14.0)
MIXED VISCOSITY (NOTE 4)	5000 cps @ 22 ºC
POT LIFE OF 200 gm. mass (NOTE 4)	30.00 Min. @ 22 ºC
GEL TIME OF 200 gm. mass (NOTE 4)	60.00 Min. @ 22 ºC

GEL TIME~12 Min @ 60ºC

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE	24 Hrs. @ 22 ºC
ALTERNATE CURE SCHEDULE	4 Hrs. @ 60 ºC

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	BLACK
DENSITY (gm/cm³)	1.48
SHORE HARDNESS	87D
TENSILE STRENGTH (psi) (ASTM D 638)	6500
TENSILE ELONGATION (%) (ASTM D 638)	4.0
HDT(°C) (ASTM D 648)	97
FLAMABILITY RATING	UL94-V0 (90c.)
COMPRESSIVE STRENGTH (psi)	13500
GUIDE TO OPERATING TEMPERATURE(°C)(NOTE 6)	130
LINEAR SHRINKAGE (in/in) (ASTM D 2566)	0.0040
COEFFICIENT OF THERMAL EXPANSION (in/in/°C)	45x10^-6
THERMAL CONDUCTIVITY W/(m•K)	0.80

ELECTRICAL PROPERTIES		
DISSIPATION FACTOR A	@1	0.0200
DIELECTRIC STRENGTH	450 Volts/Mil	62.5 Mil/Section
ARC RESISTANCE		150 Seconds
VOLUME RESISTIVITY		40 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

6430 Vipond Drive, Mississauga, Ontario, Canada L5T 1W8 Phone: 1-800-563-3769, (905) 673-0510, Fax: (905) 673-0519 Web site: www.crosslinktech.com , E-mail: info@crosslinktech.com