



CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS



Our strength is in our formulations

TECHNICAL BULLETIN:

XP6 1862 / CLI 4161

PRODUCT DESCRIPTION:

A TWO COMPONENT, LOW VISCOSITY, POLYURETHANE CASTING SYSTEM, SPECIFICALLY DESIGNED FOR CASTING TRANSFORMERS, COILS AND ELECTRONIC COMPONENTS. THE CURED PRODUCT IS UL-94V0 CERTIFIED. PRODUCT HAS EXCELLENT THERMAL SHOCK RESISTANCE.

SALES SPECIFICATIONS:

	XP6 1862	CLI 4161
COLOR	BLACK	DARK AMBER
VISCOSITY (NOTE 1, NOTE 4)	7,500 - 11,000 cps	150 - 500 cps
SPECIFIC GRAVITY	1.51 ± 0.03 gm/cm ³	1.23 ± 0.02 gm/cm ³
SHELF LIFE	6 MONTHS	12 MONTHS

HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:16.0 (by vol. 100:20.0)
MIXED VISCOSITY (NOTE 4)	4,000 cps @ 22 °C
POT LIFE OF 150 gm. mass (NOTE 4)	3 Min. @ 22 °C
GEL TIME OF 150 gm. mass (NOTE 4)	4.5 Min. @ 22 °C

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE:	24 Hrs. @ 22 °C
ALTERNATE CURE SCHEDULE:	2 Hrs. @ 60 °C

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	BLACK
DENSITY (gm/cm ³)	1.47
SHORE HARDNESS	93A
GUIDE TO OPERATING TEMPERATURE (°C) (Note 6)	105
TENSILE STRENGTH (psi) (ASTM D 638)	1,050
TENSILE ELONGATION (%) (ASTM D 638)	40.0
FLAMMABILITY	UL-94V0

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ELECTRICAL PROPERTIES:		
DIELECTRIC CONSTANT	@10 KHz	4.10
	@1 MHz	3.72
DISSIPATION FACTOR	@10 KHz	0.0514
	@1 MHz	0.0267
DIELECTRIC STRENGTH	599 Volts/Mil	62 Mil/Section
ARC RESISTANCE		160 Seconds
VOLUME RESISTIVITY		1.3 X 10 ¹⁴ Ohm/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 $\pm 2\%$ 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.

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 ASSESSMENTS TO DETERMINE ITS 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.

Issue NO: 8

July 02, 2013