



# CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO

9001

REGISTERED  
QUALITY SYSTEM

SINCE 1981

## 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 SPECIFICATION	XP6 1862	CLI 4161
COLOUR	BLACK	DARK AMBER
VISCOSITY (NOTE 1, NOTE 4)	7500 - 11000 CPS @ 22 °C	150 - 500 CPS @ 22 °C
SPECIFIC GRAVITY	1.51 ± 0.03 gm/cm <sup>3</sup>	1.23 ± 0.02 gm/cm <sup>3</sup>
SHELF LIFE	6 MONTHS	12 MONTHS

### HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:16 (by vol. 100:20.0)
MIXED VISCOSITY (NOTE 4)	4000 cps @ 22 °C
POT LIFE OF 150 gm. mass (NOTE 4)	3.00 Min. @ 22 °C
GEL TIME OF 150 gm. mass (NOTE 4)	4.50 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 <sup>3</sup> )	1.47
SHORE HARDNESS	93A
TENSILE STRENGTH (psi) (ASTM D 638)	1050
TENSILE ELONGATION (%) (ASTM D 638)	40.0
FLAMABILITY RATING	UL-94V0
GUIDE TO OPERATING TEMPERATURE(°C)(NOTE 6)	105

### ELECTRICAL PROPERTIES

DIELECTRIC CONSTANT	@10 KHz	4.10
DIELECTRIC CONSTANT	@1 MHz	3.72
DISSIPATION FACTOR A	@10 KHz	0.0514

<b>DISSIPATION FACTOR B</b>	<b>@1 MHz</b>	0.0267
<b>DIELECTRIC STRENGTH</b>	599 Volts/Mil	62.5 Mil/Section
<b>ARC RESISTANCE</b>		160 Seconds
<b>VOLUME RESISTIVITY</b>		$1.3 \times 10^{14} \Omega \cdot \text{cm}$
<b>DISSIPATION TEMPERATURE</b>		$5.0 \times 10^{13}$

### **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**

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