



# CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO

9001

REGISTERED  
QUALITY SYSTEM

SINCE 1981

## TECHNICAL BULLETIN: XRD 1018 / XHD 1019

### PRODUCT DESCRIPTION:

A TWO COMPONENT, ROOM TEMPERATURE CURE SEMI-FLEXIBLE, FLAME RETARDANT, EPOXY SYSTEM. THE SYSTEM WAS DEVELOPED FOR POTTING/CASTING OF ELECTRICAL AND ELECTRONIC COMPONENTS. ITS USE OF NON-ABRASIVE FILLERS AND CONVENIENT 1 TO 1 RATIO BY VOLUME, MAKE IT IDEAL FOR USE IN MACHINE DISPENSING EQUIPMENT. THIS PRODUCT MEETS UL94-V0 IN HOUSE FLAMMABILITY TESTING.

SALES SPECIFICATION	XRD 1018	XHD 1019
COLOUR	BLACK	NATURAL
VISCOSITY (NOTE 1, NOTE 4)	8000 - 15000 CPS @ 22 °C	6000 - 12000 CPS @ 22 °C
SPECIFIC GRAVITY	1.45 ± 0.03 gm/cm <sup>3</sup>	1.45 ± 0.03 gm/cm <sup>3</sup>
SHELF LIFE	12 MONTHS	12 MONTHS

### HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:100 (by vol. 100:100.0)
MIXED VISCOSITY (NOTE 4)	7500 cps @ 22 °C
POT LIFE OF 200 gm. mass (NOTE 4)	30.00 Min. @ 22 °C
GEL TIME OF 200 gm. mass (NOTE 4)	75.00 Min. @ 22 °C

### CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE	24 Hrs. @ 22 °C
ALTERNATE CURE SCHEDULE	6 Hrs. @ 60 °C

### CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	BLACK
DENSITY (gm/cm <sup>3</sup> )	1.45
SHORE HARDNESS	65D
TENSILE STRENGTH (psi) (ASTM D 638)	1100
TENSILE ELONGATION (%) (ASTM D 638)	50.0
COEFFICIENT OF THERMAL EXPANSION (in/in/°C)	109.2X10 <sup>-6</sup>

## ELECTRICAL PROPERTIES

DISSIPATION FACTOR A	@1	0.0200
DIELECTRIC STRENGTH	380 Volts/Mil	125.0 Mil/Section
VOLUME RESISTIVITY		2.0 x10 <sup>14</sup> 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  $\pm 2\%$  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 ASSESMENTS 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.

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