



CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS



Our strength is in our formulations

TECHNICAL BULLETIN:

XR6 1406 / CLH 6020

PRODUCT DESCRIPTION:

A LOW DENSITY EPOXY CASTING SYSTEM. PRODUCT IS RECOMMENDED FOR REDUCING WEIGHT, WHEN CASTING AND POTTING SMALL ELECTRONIC MODULES. PRODUCT IS SUITABLE FOR OPERATING IN ENVIRONMENTS FROM -40C. TO +120C.

SALES SPECIFICATIONS:

	XR6 1406	CLH 6020
COLOR	CHARCOAL	AMBER
VISCOSITY (NOTE 1, NOTE 4)	3,000 - 6,000 cps	20 - 30 cps
SPECIFIC GRAVITY	0.72 ± 0.03 gm/cm ³	0.95 ± 0.02 gm/cm ³
SHELF LIFE	12 MONTHS	12 MONTHS

HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:12.0 (by vol. 100:9.0)
MIXED VISCOSITY (NOTE 4)	2,000 cps @ 22 °C
POT LIFE OF 150 gm. mass (NOTE 4)	35 Min. @ 22 °C
GEL TIME OF 150 gm. mass (NOTE 4)	45.0 Min. @ 22 °C

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE:	48 Hrs. @ 22 °C
ALTERNATE CURE SCHEDULE:	4 Hrs. @ 60 °C

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	CHARCOAL
DENSITY (gm/cm ³)	0.74
SHORE HARDNESS	70D
GUIDE TO OPERATING TEMPERATURE (°C) (Note 6)	120
LINEAR SHRINKAGE (in/in) (ASTM D 2566)	0.0002
TENSILE STRENGTH (psi) (ASTM D 638)	4,500
TENSILE ELONGATION (%) (ASTM D 638)	9.0
COEFFICIENT OF THERMAL EXPANSION (in/in/°C)	40X10 ⁻⁶
THERMAL CONDUCTIVITY (Cal/Sec.Cm.°C)	4.1X10 ⁻⁴
MOISTURE ABSORPTION (%)	0.400
FLEXURAL STRENGTH (psi)	5,500

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ELECTRICAL PROPERTIES:		
DIELECTRIC CONSTANT	@1 KHz	3.00
DISSIPATION FACTOR	@1 KHz	0.0200
DIELECTRIC STRENGTH	62 Mil/Section	430 Volts/Mil
VOLUME RESISTIVITY		2.05 x10 ¹⁴ Ohm/Cm

NOTES

Note1 If a filled resin, setting 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 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 and obser.

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 IT’S 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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