ER1196/CT1196
Flexible, Long-Work-Time, 2-Part Epoxy

APPLICATIONS

- Small Potting Applications
- General Bonding Applications
- General Sealing Applications
- Low-Voltage Potting

FEATURES

- Long Working Time
- Easy Mix Ratio 1:1
- 2-Part System
- Flexible After Cure
- Grey in Color After Cure
- Low Shrinkage – Ideal for Potting Applications

RECOMMENDED SUBSTRATES

- Metals
- Plastics
- Glass
- Ceramic
- FR-4

Crosslink® ER1196/CT1196 is a 100% solids 2-part formulation designed for small and low-voltage potting, general bonding, and sealing applications. It is characterized by its long work time and flexibility after cure. The cured resin has excellent moisture and chemical resistance. This product is in full compliance with the RoHS Directives 2002/95/EC and 2003/11/EC.

TYPICAL UNCURED PROPERTIES (RESIN)*

Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Epoxy	N/A
Appearance	Black Translucent Gel	N/A
Soluble in	Organic Solvents	N/A
Density, g/ml	1.43	N/A
Viscosity ,cP (20rpm)	15,500 cP (nominal)	ASTM 2556

TYPICAL UNCURED PROPERTIES (CATALYST)*

Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Epoxy	N/A
Appearance	Tan Translucent Gel	N/A
Soluble in	Organic Solvents	N/A
Density, g/ml	1.4	N/A
Viscosity, cP (20rpm)	6,000 cP (nominal)	ASTM 2556

CURED MECHANICAL PROPERTIES

Property	Value	Test Method
Durometer Hardness	D60	ASTM D2240
Tensile at Break, MPa [psi]	5.7 [820]	ASTM D638
Elongation at Break, %	19	ASTM D638
Modulus of Elasticity, MPa [psi]	32 [4,700]	ASTM D638

CURED ELECTRICAL PROPERTIES (OPTIONAL)

Property	Value	Test Method
Dielectric Constant (1MHz @ 25°C [77°F])	4.22	ASTM D150
Dielectric Strength (kV/mm)	20	ASTM D149
Volume Resistivity (10^12 ohm-cm)	3.79	ASTM D257

OTHER CURED PROPERTIES

Property	Value	Test Method
Boiling Water Absorption, % (2 hr)	0.8	ASTM D570
Water Absorption, % (25˚C, 24 hr)	0.6	ASTM D570
Linear Shrinkage, %	0	ASTM D2566

* Not Specifications

N/A Not Applicable

RoHS Compliant

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HANDLING INSTRUCTIONS

Recommended Mix Ratio, Resin: Catalyst	1:1
Pot Life (100 grams)	300 mins

CURING GUIDELINES

CURE SCHEDULE	
Time, hr	Temperature, °C [˚F]
96	RT

INSTRUCTIONS FOR USE

Instructions for Use:

1. Prior to removing material from its shipping container, mix thoroughly.
2. Weigh out required amount of ER1196 and CT1196 in the ration of 1 part resin to 1 part catalyst.
3. Thoroughly stir or shake catalyst before use.
4. Mix by hand stirring or with mechanical agitation until catalyst and resin are uniformly dispersed. Do not entrap excessive air.
5. Vacuum deairation may be used where required for absolute void-free casting.

For a more rigid product with Shore Hardness of D85, use 2 parts of resin and 1 part of catalyst by weight or volume.

OPTIMIZING PERFORMANCE AND HANDLING

1. Parts should be allowed to cool after cure before testing and subjecting to any loads.
2. Parts should be free from oil and debris for best performance.

DISPENSING THE ADHESIVE

This material may be dispensed with a variety of manual and automatic applicators or other equipment as required. Questions relating to dispensing and curing systems for specific applications should be referred to DYMAX Applications Engineering.

STORAGE AND SHELF LIFE

Keep covered when not in use. This material has a minimum 12-month shelf life from date of shipment, unless otherwise specified, when stored between 10˚C [50˚F] and 32˚C [90˚F] in the original, unopened container.

CLEAN UP

Uncured material may be removed from dispensing components and parts with organic solvents. Cured material will be impervious to many solvents and difficult to remove. Clean up of cured material may require mechanical methods of removal.

GENERAL INFORMATION

This product is intended for industrial use only. Keep out of the reach of children. Avoid breathing vapors. Avoid contact with skin, eyes, and clothing. Wear impervious gloves. Repeated or continuous skin contact with uncured material may cause irritation. Remove material from skin with soap and water. Never use organic solvents to remove material from skin and eyes. For more information on the safe handling of this material, please refer to the Material Safety Data Sheet before use.

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