Laboratory Data Sheet

OXY-CAST 607 LV

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PRODUCT DESCRIPTION

Oxy-Cast 607 LV is a versatile epoxy casting system developed for high performance production potting and encapsulating applications where low shrinkage and rapid air evacuation are required. This formulation has a very low surface tension and a flowable viscosity which affords excellent air release. It has been used as a one-fill impregnating and encapsulating resin. Oxy-Cast 607 LV adheres to rigid plastics and laminated metals and ceramics, has a low coefficient of thermal expansion and is readily machined and shaped with ordinary shop tools. The fully cured epoxy system is an excellent electrical insulator which provides good resistance to electrolysis, leakage and corrosion from water, weather, gases and vapors and from chemical compounds including mild acids and alkalis, many corrosive salt and salt solutions, petroleum products and lubricants and other organic and inorganic materials.

APPLICATIONS

This low exothermic, low shrinkage system exhibits excellent flow and wetting characteristics. Its low viscosity allows for void free filling and self leveling in casting use and excellent impregnation of fine wire transformers and coils.

Physical Properties

Color:	Black
Operating Temperature Range, °C:	-60 to 145
Heat Distortion Temperature, °C:	95
Tensile Strength, psi:	9,500
Compressive Strength, psi:	14,400
Hardness, Shore D:	85
Coefficient of Expansion, cm/cm °C:	35 x 10^{-6}
Dielectric Strength, Volts/Mil:	450
Dissipation Factor, 1000KHz @ 25°C:	0.016
Thermal Shock, MIL-I-16923D:	Passes
Volume Resistivity @ 25°C:	1014

Handling Characteristics

Mix-Ratio by Volume,	
Resin to Hardener:	1 to 1
Mixed Viscosity @ 25°C, cps:	3,000 to 5,000
Specific Gravity:	1.55
Pot Life @ 25°C, 150 Gram Mass:	30 to 40 Minutes
Cure Schedule @ 25°C:	4 to 8 Hours
Cure Schedule @ 140°F:	1.5 Hours
Cure Schedule @ 220°F:	1 Hour

Storage

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

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