RESIN TECHNOLOGY GROUP, LLC

PRODUCT DATA SHEET

CASTING SYSTEM
Two-Component Epoxy

OXY-CAST 6850 FTLV with HARDENER XL

Epoxy Casting System, Versatile High Thermal Conductivity

Description:

OXY-CAST 6850 FTLV with HARDENER XL is a low viscosity, versatile epoxy casting system that exhibits unusually high thermal conductivity and low thermal expansion. It is recommended for electronic/electrical casting and encapsulating applications that require a unique combination of excellent wetting, flow, good thermal expansion coefficients, thermal shock resistance, high heat transfer capabilities and outstanding electrical properties. Fully cured OXY-CAST 6850 FTLV with HARDENER XL is highly resistant to weather, water, gases and vapors, petroleum lubricants and fuels and many mild acids and alkalis.

Applications:

OXY-CAST 6850 FTLV with HARDENER XL is excellent in high voltage applications, such as power supplies, transformers, bushings and insulators.

Physical Properties:

Color:

Operating Temperature Range, °C:
Specific Gravity:

Tensile Strength, psi:
Compressive Strength, psi:
Hardness, Shore D:
Thermal Conductivity,

Black
205
205
205
12,000
95

BTU (in)/(ft²)(hr) °F: 10.1 Dielectric Strength, Volts/Mil: 550 Dissipation Factor, 1000KHz @ 25°C: .0024

Handling Characteristics:

Mix-Ratio by Weight,

Resin to Hardener: 100 to 2

Mixed Viscosity @ 25°C, cps: 10,000

Cure Schedule @ 100°C: 10 Minutes

Cure Schedule @ 150°C: 5 Minutes

Storage:

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

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