

Circalok™ 6055 Epoxy Encapsulant

Description

LORD Circalok™ 6055 encapsulant is a two-component epoxy encapsulating system designed for encapsulating and casting applications where non-burning properties are required.

Features and Benefits

Convenient – provides 1:1 mix ratio by volume for ease of application.

Room Temperature Cure – suitable for curing at room temperature; may be heat cured (60°C) to expedite cure.

Good Electrical Stability – provides good dielectric properties where high electrical dissipation is required.

UL Rated – UL 94 HB certified.

Broad Temperature Range – can be used on parts and devices that experience operating temperatures from -40 to +130°C.

Application

Mixing – Thoroughly stir each component prior to mixing together. Mix Circalok 6055 A resin with Circalok 6055 B hardener at a 1:1 ratio, by volume (100:82, by weight). Automatic meter/mix/dispense equipment may be used for high volume production.

Applying – Apply encapsulant using handheld cartridges or automatic meter/mix/dispense equipment.

Curing – Allow encapsulant to cure for 24 hours at 25°C, or for 2 hours at 60°C. This time-at-temperature profile refers to the time the material should be allowed to cure once it reaches the target temperature. Allowance should be made for oven ramp rates, parts with large thermal mass and other circumstances that may delay material actually reaching the target temperature.

Cleanup - Disposable containers and utensils are recommended when working with epoxies. However, when disposable materials are impractical, uncured epoxy can be removed by cleaning equipment with solvent. Solvent-cleaned utensils should be thoroughly dried before reuse; any remaining solvent can contaminate the next mixture.

Typical Properties*

	6055 A Resin	6055 B Hardener	Mixed
Appearance	Black Liquid	Pale Liquid	Black Liquid
Viscosity, cps @ 25°C	12,000	600	4000
Specific Gravity	1.17	0.95	1.06
Working Life, hr @ 25°C 100g mass	–	–	1

*Data is typical and not to be used for specification purposes.

LORD TECHNICAL DATA

Typical Cured Properties*

Volume Resistivity, ohm-cm @ 25°C ASTM D 257	8.6 x 10 ¹³
Hardness Shore D, ASTM D 2240	77
Tensile Strength, MPa ASTM D 638	20.7
Dielectric Strength, V/mil	390

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Shelf Life/Storage

Shelf life of each component is one year from date of manufacture when stored at 25°C in original, unopened container.

Cautionary Information

Before using this or any LORD product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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