

Circalok™ 6408 A SLW/ B Urethane Encapsulant

Technical Data Sheet

Circalok™ 6408 A SLW/B urethane encapsulant is a solvent-free, two-component system designed to provide a shock-resistant sealant for encapsulating and potting applications.

Features and Benefits:

Longer Working Life – Circalok 6408 SLW (slow) resin permits longer open time for processing.

Low Viscosity – maintains low viscosity for complete and void-free encapsulation.

Environmentally Resistant – provides excellent resistance to water and water vapor; exhibits excellent hydrolytic stability.

Electrically Insulative – provides excellent electrical insulation properties.

Application:

Mixing – Mix Circalok 6408 A SLW resin with Circalok 6408 B hardener at a 3:1 ratio, by weight (100:28, by volume).

Applying – Pour encapsulant directly from mixing container on to application or use automated meter/mix/dispense equipment.

Curing – Allow encapsulant to cure for 24 hours at 25°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 reaching the target temperature.

Cleanup – Use dry rag wipe to clean up equipment and spills while encapsulant is still wet.

Shelf Life/Storage:

Shelf life of each component is six months when stored at 25°C in original, unopened container.

If stored or shipped at cooler temperatures, Circalok 6408 B hardener may crystallize. If crystals appear, gently warm hardener at 50-60°C to melt crystals before mixing with resin.

Typical Properties*

	6408 A SLW Resin	6408 B Hardener	Mixed
Appearance	Amber Liquid	Yellow Liquid	Amber Liquid
Viscosity, cP @ 25°C	5500	100	5000
Specific Gravity	0.91	1.19	0.97
Working Life, minutes @ 25°C	–	–	20-30
Time to Handling Strength, hours			
@ 25°C	–	–	6
@ 65°C	–	–	1

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



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Typical Cured Properties*

Hardness Shore A	85
Tensile Strength, MPa (psi)	8.62 (1250)
Elongation at Break, %	250
Linear Shrinkage, mm/mm	0.002
Volume Resistivity, ohm-cm @ 25°C ASTM D 257	1×10^{14}
Dielectric Strength, kV/mm (V/mil) ASTM D 149	23.6 (600)

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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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