



SP-355

Thermal Conductive Encapsulant

UL File No. E354546

Features

- SP-355 is Flame Retardant and UL 94 V-0 Flammability Classified. Designed for Encapsulation of Electronic & Electrical Components. Good Flowability, Easy to Mix & Apply.
- Low Shrinkage, Ideal for Encapsulating Temperature Sensitive and Stress Sensitive Parts or Modules.
- Room Temperature Cure or Heat Cure. Excellent Thermal Conductivity and Electrical Properties after Cured.

Physical Properties

		<u>Resin (A)</u>	<u>Hardener (B)</u>
Color	:	White	Black
Viscosity	:	2,600 – 3,600cps	3,100 – 4,100cps
Specific Gravity	:	1.72 – 1.74	1.72 – 1.74
Mix Ratio	: By weight	100	: 100
Appearance	:	Dark Grey	
Viscosity	: @25°C	3,000 – 3,800 cps	
Density	: @25°C	1.72 – 1.74	
Pot Life	: @25°C	1 – 2 hrs	
Cure Time	:	25°C x 18 – 24 hrs or 80°C x 0.5 – 1 hr	
Hardness	: Shore A	45 – 55	
Working Temperature	:	-50°C ~ +200°C	
Thermal Conductivity	:	0.8 W/mk (0.46 BTU/hrs/FT ² /FT/°F)	
Coefficient of Thermal	: @0~100°C	2.06 x 10 ⁻⁴ in/in/°C	
Dielectric Strength	:	18 kV/mm (457 volts/mil)	
Tensile Strength	:	1.2 Mpa (174 psi)	
Elongation	:	80 %	
Volume Resistivity	:	2.2 x 10 ¹⁵ ohm-cm	
Dielectric Constant	: 1MHz	3.0	
Dissipation Factor	: 1MHz	2 x 10 ⁻³	
Shelf Life	: @25°C	6 months (Unopened)	

Usage

- Some Organic Compounds that Contain Sulfur, Phosphorous and Nitrogen May Inhibit or Interfere with the Curing Reaction to Cause Hard-to-Cure Problems. If There Are Contaminants Like Demould Agents, Sulfurous Materials, Flux Remaining or Organic Metal Compounds on Parts, Please Try with a Small Amount First or Wash Them Off, Clean and Dry All Surfaces Before Applying.
- If Problems of Foaming or Bubbles on Potted Components are Noticed, Try Not to Pot in Thick Sections or Try Multiple Pouring. Or, Vacuum the Mixture Before Pouring or Vacuum the Potted Components After Potting to Ensure Bubble-Free Surfaces.
- Please Use Up the Material ASAP After Opened; or, Keep This Product Tightly Sealed to Avoid Water Contamination.

傑地有限公司

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