

Lord Adhesives Thermoset,ç SC-102 Unfilled Silicone Encapsulant

Category : Polymer , Thermoset , Silicone , Silicone, RTV, Encapsulation Grade

Material Notes:

Lord SC-102 is a "water-white" clear, two component, silicone encapsulating system. It has a very low viscosity and, when cured, a low Shore A hardness. Lord SC-102 is optically transparent with no yellowish tint. It offers excellent protection for delicate components against vibration, mechanical and thermal shock, and moisture while producing a soft, tack-free surface. This material was formulated for use in electrical and electronic potting applications where ease of repair is a necessity. Lord SC-102 can be easily cut open with a knife. Lord SC-102 is addition curing. It will not depolymerize when heated in confined spaces as do many condensation curing silicones. As with all silicones, SC-102 generates no exotherm as it cures. It also exhibits low shrinkage and stress on components as it cures. Lord SC-102's cure may be accelerated with elevated temperature. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-SC-102-Unfilled-Silicone-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	STM 2
Viscosity	380 cP	380 cP	STM 1

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	26	26	ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	480 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	267 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Calculated from Volume CTE; ASTM D864
Thermal Conductivity	0.146 W/m-K	1.01 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM D2214
Maximum Service Temperature, Air	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+15 ohm-cm @Temperature 25.0 $\text{Å}^\circ\text{C}$	2.50e+15 ohm-cm @Temperature 77.0 $\text{Å}^\circ\text{F}$	ASTM D257
Dielectric Constant	2.96 @Frequency 1.00e+6 Hz,	2.96 @Frequency 1.00e+6 Hz,	ASTM D150

Electrical Properties	Temperature 25.0 Â°C Metric	Temperature 77.0 Â°F English	Comments
Dielectric Strength	17.3 kV/mm	440 kV/in	ASTM D149
Dissipation Factor	0.0028 @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	0.0028 @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	ASTM D150

Processing Properties	Metric	English	Comments
Cure Time	8.00 - 10.0 min	0.133 - 0.167 hour	
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	15.0 - 20.0 min	0.250 - 0.333 hour	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1440 min	24.0 hour	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Pot Life	30 - 40 min	30 - 40 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Clear	
Mix Ratio	1:1	by weight, by volume

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