

Lord Adhesives Circalok®, 6715 Silicone Encapsulant

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

Material Notes:

Circalok®, 6715 is a two component, medium viscosity, solvent-free silicone which cures at room temperature to an elastomeric, stress-free rubber of outstanding electrical and high temperature properties. It is the ideal product for potting and encapsulating densely packed components and for making flexible molds. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Circalok-6715-Silicone-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	14000 cP	14000 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35	35	
Tensile Strength, Yield	1.72 MPa	250 psi	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Elongation at Yield	160 %	160 %	
Tear Strength	4.38 kN/m	25.0 pli	Die B

Thermal Properties	Metric	English	Comments
CTE, linear	1.40 µm/m-°C	0.778 µin/in-°F	
Thermal Conductivity	0.346 W/m-K	2.40 BTU-in/hr-ft²- °F	
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
	300 °C	572 °F	Intermittent
Minimum Service Temperature, Air	-100 °C	-148 °F	Intermittent
	-80.0 °C	-112 °F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Dielectric Constant	3.5	3.5	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dissipation Factor	0.020	0.020	
	@Frequency 100000 Hz, Temperature 25.0 Â°C	@Frequency 100000 Hz, Temperature 77.0 Â°F	

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Appearance	White	

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