

ACC QSiil 550SB QSI Quantum Silicones Self-Priming Silicone Potting Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QSiil 550SB is a 100% silicone solids elastomer designed for electronic potting applications. The two-component system offers a hard, thermally conductive, low modulus material that is readily repairable. Key Features: 100% solids - no solvents Long pot life Good elongation Low modulus Primerless adhesion Heat cure required Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QSiil-550SB-QSI-Quantum-Silicones-Self-Priming-Silicone-Potting-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	"B" component
	1.41 g/cc	1.41 g/cc	"A" component
Viscosity	4000 cP	4000 cP	"B" component
	4000 cP	4000 cP	"A" component
Storage Temperature	<= 38.0 °C	<= 100 °F	12 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	cured 20 mins @ 150°C
Tensile Strength, Yield	3.45 MPa	500 psi	cured 20 mins @ 150°C
Elongation at Break	120 %	120 %	cured 20 mins @ 150°C
100% Modulus	0.00207 GPa	0.300 ksi	cured 20 mins @ 150°C
Tear Strength	3.51 kN/m	20.0 pli	cured 20 mins @ 150°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft ² -°F	
Flammability, UL94	V-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.47e+15 ohm-cm	1.47e+15 ohm-cm	
	3.1	3.1	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Dissipation Factor	0.0030	0.0030	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 min	0.500 hour	
	@Temperature 125 °C	@Temperature 257 °F	
Pot Life	45.0 min	0.750 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	>= 480 min	>= 480 min	

Descriptive Properties	Value	Comments
Color	Beige	"A" component
	Black	"B" component

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