

ACC QSi 553 QSI Quantum Silicones Silicone Potting Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QSi 553 is a 100% silicone solids elastomer designed for electronic potting applications. The two-component system offers a flame retardant, thermally conductive, low modulus material that is readily repairable. Key Features: 100% solids - no solvents Long pot life Good elongation Low modulus Material is UL listed. Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QSi-553-QSI-Quantum-Silicones-Silicone-Potting-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.63 g/cc	1.63 g/cc	"B" component
	1.63 g/cc	1.63 g/cc	"A" component
Viscosity	6000 cP	6000 cP	"B" component
	6000 cP	6000 cP	"A" component
Storage Temperature	<= 38.0 °C	<= 100 °F	12 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	cured 15 mins @ 150°C
Tensile Strength, Yield	1.72 MPa	249 psi	cured 15 mins @ 150°C
Elongation at Break	240 %	240 %	cured 15 mins @ 150°C
100% Modulus	0.00124 GPa	0.180 ksi	cured 15 mins @ 150°C
Tear Strength	7.89 kN/m	45.0 pli	cured 15 mins @ 150°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.680 W/m-K	4.72 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	240 °C	464 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.02e+14 ohm-cm	4.02e+14 ohm-cm	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0090	0.0090	
Comparative Tracking Index	600 V	600 V	

Descriptive Properties	Value	Comments
Color	Beige	"A" component
	Black	"B" component
Work Life	100 mins	

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