

ACC QSi 58 QSI Quantum Silicones 50 Durometer Condensation Cure for Potting

Category : Polymer , Thermoset , Silicone

Material Notes:

QSi 58 is a red, high temperature, self-leveling, two-component silicone material primarily used for potting applications. The two applicable catalysts are 0.5% DBT by weight and 10% Deep Section Catalyst by weight. The 0.5% catalyst level can be increased or decreased to obtain desired cure speed. Cure speed can be accelerated by adding DBT catalyst in increments of 0.1% DBT. QSi 58 can be catalyzed with 10% Deep Section Catalyst for application requiring a deeper cure. The material can also be vulcanized at temperatures up to 70°C to increase cure speed. Key Features: Excellent thermal stability Self-leveling Variable cure speed Part of the Amber Chemical Group.

Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QSi-58-QSI-Quantum-Silicones-50-Durometer-Condensation-Cure-for-Potting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	uncatalyzed, DBT Catalyst
	1.47 g/cc	1.47 g/cc	uncatalyzed, Deep Section Catalyst
	1.48 g/cc	1.48 g/cc	catalyzed with 0.5% DBT Catalyst or 10% Deep Section Catalyst
	1.48 g/cc	1.48 g/cc	uncatalyzed
Solids Content	100 %	100 %	
Viscosity	6500 cP	6500 cP	uncatalyzed, Deep Section Catalyst
	9000 cP	9000 cP	
Storage Temperature	<= 4.00 °C	<= 39.2 °F	12 months
	5.00 - 27.0 °C	41.0 - 80.6 °F	3 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	catalyzed, 24 hours

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 °C	500 °F	continuously and up to 316°C (600°F) intermittently
Minimum Service Temperature, Air	-54.0 °C	-65.2 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.7 kV/mm	450 kV/in	
Dissipation Factor	0.030 @Frequency 1000 Hz	0.030 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Gel Time	49.0 min	49.0 min	

Descriptive Properties	Value	Comments
Color	Red	

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