

ACC QSil 40 QSI Quantum Silicones 40 Durometer Condensation Cure for Potting

Category : Polymer , Thermoset , Silicone

Material Notes:

QSil 40 is a general purpose two-part, room temperature, condensation cure siloxane elastomer. The two applicable catalysts are 0.5% DBT by weight and 10% Deep Section Catalyst by weight. Cure speed can be accelerated by adding DBT catalyst in increments of 0.1%. This will not alter the physical properties of the material. QSil 40 exhibits excellent release properties. However, strong adhesion can be achieved through the use of a primer. Key Features: Good adhesion with use of a primer 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-QSil-40-QSI-Quantum-Silicones-40-Durometer-Condensation-Cure-for-Potting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	Uncatalyzed, DBT Catalyst
	1.20 g/cc	1.20 g/cc	"A" component
	1.47 g/cc	1.47 g/cc	Uncatalyzed, Deep Section Catalyst
Viscosity	6500 cP	6500 cP	Uncatalyzed, Deep Section Catalyst
	11000 cP	11000 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	40	40	
Tensile Strength, Yield	1.38 MPa	200 psi	
Elongation at Break	200 %	200 %	
Tear Strength	3.51 kN/m	20.0 pli	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	399 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Tack free time, catalyzed, Deep Section Catalyst

Processing Properties	Metric	English	Comments
	240 min	4.00 hour	240 min, catalyzed, DBT Catalyst
Gel Time	45.0 min	45.0 min	catalyzed, DBT Catalyst
	70.0 min	70.0 min	catalyzed, Deep Section Catalyst

Descriptive Properties	Value	Comments
Color	White	
Hegman Grind	3	

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