

ACC QSil 940 QSI Quantum Silicones 40 Durometer Condensation Cure for Potting

Category : Polymer , Thermoset , Silicone

Material Notes:

QSil 940 is a special purpose, two-component condensation cure siloxane elastomer that exhibits excellent release properties unless a primer is used which results in excellent adhesion. The material can also be used for applications that have wide temperature range requirements. The two applicable catalysts are 0.5% DBT by weight and 10% Deep Section Catalyst by weight which gives a work life of approximately 45 minutes and a tack free time of 2 hours. 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%. Key Features: Excellent release properties unless a primer is used 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-940-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	
	1.47 g/cc	1.47 g/cc	uncatalyzed, Deep Section Catalyst
Viscosity	650 cP	650 cP	uncatalyzed, Deep Section Catalyst
	12000 cP	12000 cP	
Storage Temperature	<= 4.00 °C	<= 39.2 °F	6 months
	<= 27.0 °C	<= 80.6 °F	3 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	
Tensile Strength, Yield	1.30 MPa	189 psi	
Elongation at Break	170 %	170 %	
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	-115 °C	-175 °F	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
			Tack free time, catalyzed with Deep Section Catalyst or 100: 0.5 for DBT Catalyst
Gel Time	45.0 min	45.0 min	catalyzed with Deep Section Catalyst or 100: 0.5 for DBT Catalyst

Descriptive Properties	Value	Comments
Color	Beige	uncatalyzed, Deep Section Catalyst
	Clear/light yellow	uncatalyzed, DBT Catalyst
	White	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China