

ACC QM 270 QSI Quantum Silicones 70 Durometer Addition Cure Moldmaking Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QM 270 is a two component, room temperature addition cure silicone material. The cured rubber has excellent mechanical properties, good shelf-life stability, excellent physical properties and resin resistance. This material is a good choice for the molding of furniture, picture frames and architectural materials. QM 270 is exceptionally good where high durometer and dimensional stability are required. Key Features: High Durometer Casting resin resistance Fast demold time Excellent dimensional stability Main Applications: Molds for architectural replication Molds for polyester, epoxy resin casting, and rigid or foam polyurethane Molds for technical articles and prototype Molds for furniture and picture frame replication Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QM-270-QSI-Quantum-Silicones-70-Durometer-Addition-Cure-Moldmaking-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	Uncatalyzed, QM 270B
	1.33 g/cc	1.33 g/cc	Base
Viscosity	500 cP	500 cP	Uncatalyzed, QM 270B
	50000 cP	50000 cP	catalyzed with QM 270B
	75000 cP	75000 cP	Base
Linear Mold Shrinkage	<= 0.0010 cm/cm	<= 0.0010 in/in	cured 72 hrs @ RT
Storage Temperature	<= 38.0 °C	<= 100 °F	12 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	cured 72 hrs @ RT
Tensile Strength, Yield	6.90 MPa	1000 psi	cured 72 hrs @ RT
Elongation at Break	110 %	110 %	cured 72 hrs @ RT
Tear Strength	17.5 kN/m	100 pli	cured 72 hrs @ RT

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
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Dry Time Processing Properties	8 - 12 hour Metric	8 - 12 hour English	Demold time, catalyzed with QM 270B Comments
Descriptive Properties	Value	Comments	
Color	Beige	Base	
	Beige	catalyzed with QM 270B	
	Clear	Uncatalyzed, QM 270B	
Work Life	70 mins	Uncatalyzed, QM 270B	

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