

ACC QM 140 QSI Quantum Silicones 40 Durometer Condensation Cured Moldmaking Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QM 140 is a two-component, room temperature condensation cure silicone material. The cured rubber has excellent mechanical properties and good shelf-life stability. This material is an excellent choice for the molding of intricate patterns, skin molding and applications where high durometer, dimensional stability and extremely tough rubber are required. Complies with FDA indirect food contact regulation CFR 177.2600 when used with Cat Clear FG. Refer to Cat Clear FG data sheet for specific properties. Key Features: Low viscosity High tear strength Fast demold time Excellent dimensional stability Main Applications: Molds for polyester, polyurethane and epoxy resin castings 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-140-QSI-Quantum-Silicones-40-Durometer-Condensation-Cured-Moldmaking-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	Uncatalyzed, QM CAT 140
	1.16 g/cc	1.16 g/cc	Base
	1.31 g/cc	1.31 g/cc	catalyzed with QM CAT 140
Viscosity	250 cP	250 cP	Uncatalyzed, QM CAT 140
	37000 cP	37000 cP	catalyzed with QM CAT 140
	50000 cP	50000 cP	Base
Linear Mold Shrinkage	<= 0.0030 cm/cm	<= 0.0030 in/in	cured 72 hrs @ RT
Storage Temperature	<= 38.0 °C	<= 100 °F	6 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	cured 72 hrs @ RT
Tensile Strength, Yield	4.50 MPa	653 psi	cured 72 hrs @ RT
Elongation at Break	300 %	300 %	cured 72 hrs @ RT
Tear Strength	28.0 kN/m	160 pli	B, cured 72 hrs @ RT

Processing Properties	Metric	English	Comments
Dry Time	12 - 16 hour	12 - 16 hour	Demold time, catalyzed with QM CAT 140

Processing Properties	240 - 360 min Metric	4.00 - 6.00 hour English	Tack Free Time, catalyzed with QM CAT 140
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Descriptive Properties	Value	Comments
Color	Beige	Base
	Light Purple	catalyzed with QM CAT 140
	Purple	Uncatalyzed, QM CAT 140
Work Life	45 mins	catalyzed with QM CAT 140

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