

ACC QM 113 QSI Quantum Silicones 13 Durometer Condensation Cured Moldmaking Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QM 113 is a two component, room temperature condensation cure silicone material. The cured rubber is very soft, has excellent mechanical properties and good shelf-life stability. This material is an excellent choice for the molding of intricate patterns, skin molding or for applications where lower modulus and extremely tough rubber are required. A variety of catalysts are offered with this material. Complies with FDA indirect food contact regulation CFR 177.2600 when used with QM Cat Clear FG. Refer to QM Cat Clear FG data sheet for typical properties. Key Features:Low ViscosityHigh tear strengthFast demold time Low modulusMain Applications: Molds for small statues, large statues Molds for polyester, polyurethane and epoxy resin castings Molds for technical articles and prototypes Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QM-113-QSI-Quantum-Silicones-13-Durometer-Condensation-Cured-Moldmaking-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT RED 3
	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT BLUE
	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT PURPLE
	1.23 g/cc	1.23 g/cc	catalyzed with QM CAT PURPLE
	1.23 g/cc	1.23 g/cc	catalyzed with QM CAT RED 3
	1.23 g/cc	1.23 g/cc	catalyzed with QM CAT BLUE
	1.25 g/cc	1.25 g/cc	Base
Viscosity	100 cP	100 cP	Uncatalyzed, QM CAT RED 3
	100 cP	100 cP	Uncatalyzed, QM CAT BLUE
	100 cP	100 cP	Uncatalyzed, QM CAT PURPLE
	12000 cP	12000 cP	catalyzed with QM CAT BLUE
	12000 cP	12000 cP	catalyzed with QM CAT RED 3
	12000 cP	12000 cP	catalyzed with QM CAT PURPLE
	15000 cP	15000 cP	Base
Linear Mold Shrinkage	<= 0.0030 cm/cm	<= 0.0030 in/in	Cured
	@Temperature 25.0 °C, Time 259000 sec	@Temperature 77.0 °F, Time 72.0 hour	

Storage Temperature Physical Properties	≤ 38.0 °C Metric	≤ 100 °F English	6 months Comments
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Mechanical Properties	Metric	English	Comments
Hardness, Shore A	14	14	cured 72 hrs@ RT
Tensile Strength, Yield	2.75 MPa	399 psi	cured 72 hrs@ RT
Elongation at Break	500 %	500 %	cured 72 hrs@ RT
Tear Strength	19.3 kN/m	110 pli	cured 72 hrs@ RT

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Processing Properties	Metric	English	Comments
Dry Time	4 - 6 hour	4 - 6 hour	Demold time, catalyzed with QM CAT RED 3
	12 - 16 hour	12 - 16 hour	Demold time, catalyzed with QM CAT PURPLE
	16 - 24 hour	16 - 24 hour	Demold time, catalyzed with QM CAT BLUE
Cure Time	45.0 - 60.0 min	0.750 - 1.00 hour	Tack Free Time, catalyzed with QM CAT RED 3
	240 - 360 min	4.00 - 6.00 hour	Tack Free Time, catalyzed with QM CAT PURPLE
	360 - 480 min	6.00 - 8.00 hour	Tack Free Time, catalyzed with QM cat BLUE

Descriptive Properties	Value	Comments
Color	Beige	Base
	Blue	Uncatalyzed, QM CAT BLUE
	Light Blue	catalyzed with QM CAT BLUE
	Light Purple	catalyzed with QM CAT PURPLE
	Light Red	catalyzed with QM CAT RED 3
	Purple	Uncatalyzed, QM CAT PURPLE
	Red	Uncatalyzed, QM CAT RED 3
Work Life	25 mins	catalyzed with QM CAT PURPLE

Descriptive Properties	Value	Comments
	40 mins	catalyzed with QM CAT BLUE
	7 mins	catalyzed with QM CAT RED 3

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