

ACC QM128 QSI Quantum Silicones 28 Durometer Condensation Cured Moldmaking Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QM 128 is a two-component, room temperature condensation cure silicone material. The cured rubber has excellent mechanical properties and 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. A variety of catalysts are offered with this material. 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 Main Applications: Molds for small statues and large statues 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-QM128-QSI-Quantum-Silicones-28-Durometer-Condensation-Cured-Moldmaking-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT PURPLE
	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT BLUE
	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT RED 3
	1.30 g/cc	1.30 g/cc	catalyzed with QM CAT PURPLE
	1.30 g/cc	1.30 g/cc	catalyzed with QM CAT RED 3
	1.30 g/cc	1.30 g/cc	catalyzed with QM CAT BLUE
Viscosity	100 cP	100 cP	Uncatalyzed, QM CAT PURPLE
	100 cP	100 cP	Uncatalyzed, QM CAT BLUE
	100 cP	100 cP	Uncatalyzed, QM CAT RED 3
	30000 cP	30000 cP	catalyzed with QM CAT PURPLE
	30000 cP	30000 cP	catalyzed with QM CAT RED 3
	30000 cP	30000 cP	catalyzed with QM CAT BLUE
	35000 cP	35000 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
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Mechanical Properties	Metric	English	Comments @ RT
Hardness, Shore D	24	24	catalyzed with QM CAT PURPLE
	@Time 86400 sec	@Time 24.0 hour	
	24	24	catalyzed with QM CAT BLUE
	@Time 86400 sec	@Time 24.0 hour	
	24	24	catalyzed with QM CAT RED 3
	@Time 86400 sec	@Time 24.0 hour	
Tensile Strength, Yield	3.40 MPa	493 psi	cured 72 hrs @ RT
Elongation at Break	400 %	400 %	cured 72 hrs @ RT
Tear Strength	24.5 kN/m	140 pli	B, cured 72 hrs @ RT

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	35 mins	catalyzed with QM CAT PURPLE

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

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