

## ACC QM 107 QSI Quantum Silicones 7 Durometer Condensation Cure Moldmaking Material

Category : Polymer , Thermoset , Silicone

### Material Notes:

QM 107 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 used to make large, intricate pattern, skin molds or where extreme flexibility and elasticity 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 ViscosityLow durometerFast demold time High elongationMain Applications: Molds for small statues, large statues and monument restoration Molds for polyester, polyurethane and epoxy resin castings Ideal for pad-printing Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ACC-QM-107-QSI-Quantum-Silicones-7-Durometer-Condensation-Cure-Moldmaking-Material.php](http://www.lookpolymers.com/polymer_ACC-QM-107-QSI-Quantum-Silicones-7-Durometer-Condensation-Cure-Moldmaking-Material.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	Uncatalyzed, QM CAT RED 3
	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT PURPLE
	1.03 g/cc	1.03 g/cc	Uncatalyzed, QM CAT BLUE
	1.20 g/cc	1.20 g/cc	catalyzed with QM CAT PURPLE
	1.20 g/cc	1.20 g/cc	catalyzed with QM CAT RED 3
	1.20 g/cc	1.20 g/cc	catalyzed with QM CAT BLUE
	1.22 g/cc	1.22 g/cc	Base
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
	7500 cP	7500 cP	catalyzed with QM CAT RED 3
	7500 cP	7500 cP	catalyzed with QM CAT BLUE
	7500 cP	7500 cP	catalyzed with QM CAT PURPLE
	10000 cP	10000 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	<= 38.0 °C	<= 100 °F	For 6 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	7.0	7.0	Cured
	@Temperature 25.0 °C, Time 259000 sec	@Temperature 77.0 °F, Time 72.0 hour	
	6.0	6.0	catalyzed with QM CAT RED 3
	@Time 86400 sec	@Time 24.0 hour	
6.0	6.0	catalyzed with QM CAT BLUE	
@Time 86400 sec	@Time 24.0 hour		
6.0	6.0	catalyzed with QM CAT PURPLE	
@Time 86400 sec	@Time 24.0 hour		
Tensile Strength at Break	2.07 MPa	300 psi	Cured
	@Temperature 25.0 °C, Time 259000 sec	@Temperature 77.0 °F, Time 72.0 hour	
Elongation at Break	700 %	700 %	Cured
	@Temperature 25.0 °C, Time 259000 sec	@Temperature 77.0 °F, Time 72.0 hour	
Tear Strength	15.8 kN/m	90.0 pli	B, Cured
	@Temperature 25.0 °C, Time 259000 sec	@Temperature 77.0 °F, Time 72.0 hour	

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

Descriptive Properties	Light Blue Value	Comments
	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
	45 mins	catalyzed with QM CAT BLUE
	7 mins	catalyzed with QM CAT RED 3

## Contact Songhan Plastic Technology Co.,Ltd.

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