

## ACC QM 118 QSI Quantum Silicones 18 Durometer Condensation Cured 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 an excellent choice for the molding of intricate patterns, skin molding or for applications which demand a tough rubber. The hardness of QM 118 is the midpoint of the QM100 series and therefore offers excellent physical properties. A variety of catalysts are offered with this material. Key Features:Low ViscosityExcellent physical propertiesFast demold timeMain Applications: Molds for small statues, large statues and monument restoration Molds for polyester, polyurethane and epoxy resin castings Molds for 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-118-QSI-Quantum-Silicones-18-Durometer-Condensation-Cured-Moldmaking-Material.php](http://www.lookpolymers.com/polymer_ACC-QM-118-QSI-Quantum-Silicones-18-Durometer-Condensation-Cured-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
	1.24 g/cc	1.24 g/cc	catalyzed with QM CAT PURPLE
	1.24 g/cc	1.24 g/cc	catalyzed with QM CAT RED 3
	1.24 g/cc	1.24 g/cc	catalyzed with QM CAT BLUE
	1.28 g/cc	1.28 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
	13500 cP	13500 cP	catalyzed with QM CAT RED 3
	13500 cP	13500 cP	catalyzed with QM CAT BLUE
	13500 cP	13500 cP	catalyzed with QM CAT PURPLE
	20000 cP	20000 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	6 months

Physical Properties	Metric	English	Comments
Hardness, Shore A	18	18	cured for 72 hrs @ RT
Tensile Strength, Yield	2.90 MPa	421 psi	cured for 72 hrs @ RT
Elongation at Break	500 %	500 %	cured for 72 hrs @ RT
Tear Strength	20.2 kN/m	115 pli	cured for 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	25 mins	catalyzed with QM CAT PURPLE
	45 mins	catalyzed with QM CAT BLUE
	7 mins	catalyzed with QM CAT RED 3

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