

## ACC QM 122 QSI Quantum Silicones 22 Durometer Condensation Cured Moldmaking Material

Category : Polymer , Thermoset , Silicone

### Material Notes:

QM 122 is a two-component, room temperature condensation cure silicone material. The cured rubber is flexible with excellent mechanical and physical properties in addition to good shelf-life stability. This material is an excellent choice for the molding of intricate patterns which involve deep undercuts and where dimensional stability becomes important while maintaining fairly low modulus. 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 Excellent tear resistance Fast demold time Moderately high durometer with a moderately low modulus Main Applications: Molds for small statues, large statues and monument restoration Molds for polyester, polyurethane and epoxy resin castings Molds for prototypes Picture frame and architectural molds Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ACC-QM-122-QSI-Quantum-Silicones-22-Durometer-Condensation-Cured-Moldmaking-Material.php](http://www.lookpolymers.com/polymer_ACC-QM-122-QSI-Quantum-Silicones-22-Durometer-Condensation-Cured-Moldmaking-Material.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	Uncatalyzed, QM CAT PURPLE
	1.00 g/cc	1.00 g/cc	Uncatalyzed, QM CAT PURPLE
	1.03 g/cc	1.03 g/cc	Uncatalyzed, QM CAT BLUE
	1.25 g/cc	1.25 g/cc	catalyzed with QM CAT PURPLE
	1.25 g/cc	1.25 g/cc	catalyzed with QM CAT RED 3
	1.25 g/cc	1.25 g/cc	catalyzed with QM CAT BLUE
	Viscosity	100 cP	100 cP
100 cP		100 cP	Uncatalyzed, QM CAT BLUE
100 cP		100 cP	Uncatalyzed, QM CAT RED 3
15000 cP		15000 cP	catalyzed with QM CAT RED 3
15000 cP		15000 cP	catalyzed with QM CAT BLUE
15000 cP		15000 cP	catalyzed with QM CAT PURPLE
25000 cP		25000 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	22	22	cured 72 hrs @ RT
Tensile Strength, Yield	2.76 MPa	400 psi	cured 72 hrs @ RT
Elongation at Break	300 %	300 %	cured 72 hrs @ RT
Tear Strength	20.2 kN/m	115 pli	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
	45 mins	catalyzed with QM CAT BLU
	7 mins	catalyzed with QM CAT RED 3

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