

ACC QM 2128 QSI Quantum Silicones 28 Durometer Condensation Cure Moldmaking Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QM 2128 is a two-component, room temperature condensation cure silicone material. The cured rubber has excellent mechanical properties and good 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. Key Features: Low specific gravity Low viscosity High tear strength Long work-life Fast demold time Excellent dimensional stability Main Applications: Molds for large and small statues Molds for polyester, polyurethane and epoxy resin castings Molds for technical articles and prototype Molds for furniture and picture frame replication Molds for GFRC pre-cast Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QM-2128-QSI-Quantum-Silicones-28-Durometer-Condensation-Cure-Moldmaking-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	Uncatalyzed, Moldmaster Purple
	1.00 g/cc	1.00 g/cc	Uncatalyzed, Moldmaster Green
	1.00 g/cc	1.00 g/cc	Uncatalyzed, Moldmaster Blue
	1.00 g/cc	1.00 g/cc	Uncatalyzed, Moldmaster Red
	1.13 g/cc	1.13 g/cc	catalyzed with Moldmaster Green
	1.13 g/cc	1.13 g/cc	catalyzed with Moldmaster Blue
	1.13 g/cc	1.13 g/cc	catalyzed with Moldmaster Red
	1.13 g/cc	1.13 g/cc	catalyzed with Moldmaster Purples
Viscosity	150 cP	150 cP	Uncatalyzed, Moldmaster Purple
	150 cP	150 cP	Uncatalyzed, Moldmaster Green
	150 cP	150 cP	Uncatalyzed, Moldmaster Blue
	150 cP	150 cP	Uncatalyzed, Moldmaster Red
	35000 cP	35000 cP	catalyzed with Moldmaster Green
	35000 cP	35000 cP	catalyzed with Moldmaster Blue
	35000 cP	35000 cP	catalyzed with Moldmaster Red
	35000 cP	35000 cP	catalyzed with Moldmaster Purple

Physical Properties	35000 cP Metric	35000 cP English	Base Comments
Linear Mold Shrinkage	<= 0.0025 cm/cm	<= 0.0025 in/in	cured 72 hrs @ RT
Storage Temperature	<= 38.0 °C	<= 100 °F	6 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	28	28	cured 72 hrs @ RT
Tensile Strength, Yield	4.14 MPa	600 psi	cured 72 hrs @ RT
Elongation at Break	500 %	500 %	cured 72 hrs @ RT
Tear Strength	28.0 kN/m	160 pli	B, cured 72 hrs @ RT

Processing Properties	Metric	English	Comments
Dry Time	4 - 6 hour	4 - 6 hour	Demold time, catalyzed with Moldmaster Red
	4.00 - 6.00 hour	4.00 - 6.00 hour	Demold time, catalyzed with Moldmaster Blue
	8 - 10 hour	8 - 10 hour	Demold time, catalyzed with Moldmaster Purple
	8.00 - 10.0 hour	8.00 - 10.0 hour	Demold time, catalyzed with Moldmaster Green
Cure Time	120 - 240 min	2.00 - 4.00 hour	Tack Free Time, catalyzed with Moldmaster Blue
	120 - 240 min	2.00 - 4.00 hour	Tack Free Time, catalyzed with Moldmaster Red
	240 - 360 min	4.00 - 6.00 hour	Tack Free Time, catalyzed with Moldmaster Green
	240 - 360 min	4.00 - 6.00 hour	Tack Free Time, catalyzed with Moldmaster Purple

Descriptive Properties	Value	Comments
Color	Beige	Base
	Blue	Uncatalyzed, Moldmaster Blue
	Dark Purple	catalyzed with Moldmaster Purple
	Green	Uncatalyzed, Moldmaster Green
	Light Blue	catalyzed with Moldmaster Blue
	Light Green	catalyzed with Moldmaster Green
		catalyzed with Moldmaster Red

Descriptive Properties	Light Red Value	Comments
	Purple	Uncatalyzed, Moldmaster Purple
	Red	Uncatalyzed, Moldmaster Red
Work Life	30 mins	catalyzed with Moldmaster Blue
	30 mins	catalyzed with Moldmaster Red
	60 mins	catalyzed with Moldmaster Purple
	60 mins	catalyzed with Moldmaster Green

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