

ACC QM 245 QSI Quantum Silicones 45 Durometer Addition Cure Moldmaking Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QM 245 is a two component, room temperature addition cure silicone material. The cured rubber has excellent mechanical properties and good shelf-life stability. This material is a good choice for the molding of furniture, picture frames and architectural materials. QM 245 is exceptionally good where highly detailed parts and mold flexibility are required. Complies with FDA indirect food contact regulation CFR 177.2600 (Red Catalyst only is CFR 177.2600 compliant)Key Features: Excellent tear resistance Casting resin resistance Fast demold time Good mold flexibilityMain Applications: Molds for architectural replication 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-QM-245-QSI-Quantum-Silicones-45-Durometer-Addition-Cure-Moldmaking-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	Uncatalyzed, QM 245B
	1.34 g/cc	1.34 g/cc	Base
Viscosity	2000 cP	2000 cP	Uncatalyzed, QM 245B
	30000 cP	30000 cP	catalyzed with QM 245B
	50000 cP	50000 cP	Base
Linear Mold Shrinkage	<= 0.0010 cm/cm	<= 0.0010 in/in	cured 72 hrs @ RT
Storage Temperature	<= 38.0 °C	<= 100 °F	12 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	cured 72 hrs @ RT
Tensile Strength, Yield	4.10 MPa	595 psi	cured 72 hrs @ RT
Elongation at Break	400 %	400 %	cured 72 hrs @ RT

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	399 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Processing Properties	Metric	English	Comments
Dry Time	6 - 8 hour	6 - 8 hour	Demold time, catalyzed with QM 230F

Processing Properties	Metric	English	Comments
Descriptive Properties	Value	Comments	
Color	Beige	Base	
	Dark Red	Uncatalyzed, QM 245B	
	Red	catalyzed with QM 245F B	
Work Life	42 mins	catalyzed with QM 245F B	

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