

ACC QSil 12 QSI Quantum Silicones Clear Low Viscosity for Potting Material

Category : Polymer , Thermoset , Silicone

Material Notes:

QSil 12 is a clear, transparent, low viscosity, two-component, liquid silicone material which cures at room temperature and is primarily intended for potting applications. This material is typically mixed at a ratio of 100:5. Once mixed, the material is self-leveling and will have a useful worklife of approximately two hours. The material will be fully cured after 24 - 48 hours at room temperature. This material can also be vulcanized at elevated temperatures (up to 70°C) to increase the cure speed. Key Features: Low viscosity Variable cure speed, with mild heat Transparency Room temperature cure Good adhesion with use of a primer Part of the Amber Chemical Group. Data provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QSil-12-QSI-Quantum-Silicones-Clear-Low-Viscosity-for-Potting-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.850 g/cc	0.850 g/cc	QSil 12C
	1.00 g/cc	1.00 g/cc	cured with 5% curing agent
	1.00 g/cc	1.00 g/cc	QSil 12
Viscosity	15 cP	15 cP	QSil 12C
	1400 cP	1400 cP	QSil 12
Storage Temperature	<= 38.0 °C	<= 100 °F	6 months

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	12	12	cured with 5 % curing agent, 24 hours
	18	18	cured with 5% curing agent, 72 hours

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

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
	3.0	3.0	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	
Dissipation Factor	0.0010 @Frequency 1000 Hz	0.0010 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Gel Time	60.0 - 180 min	60.0 - 180 min	

Descriptive Properties	Value	Comments
Color	Clear, Slight Haze	QSil 12
	Clear, Slight Yellow	QSil 12C

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