

ACC QSil 216 QSI Quantum Silicones Transparent Liquid Silicone Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

Material Notes:

QSil 216 is a two-part, clear, liquid silicone which will cure at room temperature or at elevated temperatures. It has a low viscosity, which allows for ease of flow around complex parts, providing electrical insulation and shock resistance. Key Features: Convenient 10:1 mixing ratio for use in automatic dispensing equipment or hand mixing Contains no solvents Non-yellowing catalyst system Chemical composition provides hydrolytic stability and reversion resistance Part of the Amber Chemical Group. Data provided by manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_ACC-QSil-216-QSI-Quantum-Silicones-Transparent-Liquid-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	QSil 216B
	1.02 g/cc	1.02 g/cc	QSil 216A
Viscosity	500 cP	500 cP	QSil 216B
	4000 cP	4000 cP	QSil 216A
Linear Mold Shrinkage	<= 0.0010 cm/cm	<= 0.0010 in/in	cured 60 mins @ 100°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	cured 60 mins @ 100°C
Tensile Strength, Yield	5.20 MPa	754 psi	cured 60 mins @ 100°C
Elongation at Break	100 %	100 %	cured 60 mins @ 100°C

Thermal Properties	Metric	English	Comments
CTE, linear	275 $\mu\text{m/m}\cdot^\circ\text{C}$	153 $\mu\text{in/in}\cdot^\circ\text{F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.26 J/g-°C	0.301 BTU/lb-°F	
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	204 °C	399 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.406	1.406	cured 60 mins @ 100°C
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Optical Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+15 ohm-cm	1.70e+15 ohm-cm	
Dielectric Constant	2.69	2.69	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dissipation Factor	0.00060	0.00060	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Gel Time	96.0 min	96.0 min	

Descriptive Properties	Value	Comments
Color	Clear	QSil 216A
	Clear	QSil 216B
	Transparent, colorless	Catalyzed
Consistency	Easily pourable	Catalyzed

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China