

Dow Corning SE 4447 CV KIT

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

Material Notes:

Two-part liquid silicone elastomer designed for applications requiring very high thermal conductivity and electrical insulation. Information provided by Dow Corning

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Corning-SE-4447-CV-KIT.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.01 g/cc	3.01 g/cc	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	22000 cP	22000 cP	dynamic

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	86	86	
Tensile Strength, Ultimate	0.138 MPa	20.0 psi	
Tensile Strength, Yield	0.0483 MPa	7.00 psi	at 150% elongation, maximum
Elongation at Break	20 %	20 %	
Penetration P(60), 1/10 mm	39	39	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.50 W/m-K	17.4 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.20e+14 ohm-cm	8.20e+14 ohm-cm	
Dielectric Constant	6.5	6.5	
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	6.6	6.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	>= 10.6 kV/mm	>= 270 kV/in	

Electrical Properties	<= 0.00010 Metric	<= 0.00010 English	Comments
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.0020	0.0020	
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Cure Time	3.70 min	0.0617 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	4.90 min	0.0817 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	5.50 min	0.0917 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	240 min	4.00 hour	
	@Temperature 22.0 °C	@Temperature 71.6 °F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Color	grey	
Flowable	yes	
Hydrophobic	yes	
Self Leveling	yes	
Water Resistant	yes	

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