

Dow Corning SE 4430 KIT

Category : Polymer , Adhesive , Thermoset , Silicone

Material Notes:

Two-part, thermally conductive elastomer, soft, good thermal conductivity, UL 94 V-0 rating, low viscosity. Information provided by Dow Corning

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Corning-SE-4430-KIT.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.20 g/cc	2.20 g/cc	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	5600 cP	5600 cP	dynamic

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	70	70	
Tensile Strength, Ultimate	0.414 MPa	60.0 psi	
Penetration P(0), 1/10 mm	35	35	

Thermal Properties	Metric	English	Comments
CTE, linear	174 µm/m-°C	96.7 µin/in-°F	
Thermal Conductivity	0.950 W/m-K	6.59 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.90e+14 ohm-cm	1.90e+14 ohm-cm	
Dielectric Constant	4.0	4.0	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.6	4.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.6	4.6	

Electrical Properties	@Frequency 100000 Hz Metric	@Frequency 100000 Hz English	Comments
Dielectric Strength	17.9 kV/mm	455 kV/in	
Dissipation Factor	0.00015	0.00015	
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.0020	0.0020	
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1.90 min	0.0317 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	2.50 min	0.0417 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	3.50 min	0.0583 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	420 min	7.00 hour	
	@Temperature 22.0 °C	@Temperature 71.6 °F	
Shelf Life	8.00 Month	8.00 Month	

Descriptive Properties	Value	Comments
Color	grey	
Hydrophobic	yes	
Self Leveling	yes	
Water Resistant	yes	
Working Time (min)	240	

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