

Arlon CP-RC-3916 Bulk Compound

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

Material Notes:

This data represents typical values for the production material. The data should not be used to write, or in place of, material specifications. Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-CP-RC-3916-Bulk-Compound.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	Silicone Property; Arlon SQA-TMS-024

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
Tensile Strength	4.83 MPa	700 psi	Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property

Thermal Properties	Metric	English	Comments
CTE, linear	220 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 30.0 - 150 $^{\circ}\text{C}$	122 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 86.0 - 302 $^{\circ}\text{F}$	Silicone Property; ASTM E 831
Thermal Conductivity	0.400 W/m-K @Temperature 100 $^{\circ}\text{C}$	2.78 BTU-in/hr-ft ² - $^{\circ}\text{F}$ @Temperature 212 $^{\circ}\text{F}$	Silicone Property; ASTM E 1530
Maximum Service Temperature, Air	204 $^{\circ}\text{C}$	400 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-73.3 $^{\circ}\text{C}$	-100 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	≤ -100 $^{\circ}\text{C}$	≤ -148 $^{\circ}\text{F}$	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.80e+15 ohm-cm	3.80e+15 ohm-cm	ASTM D257-99
Dielectric Constant	3.4 @Frequency 1.00e+6 Hz	3.4 @Frequency 1.00e+6 Hz	D _k , Silicone Property; IPC TM 650-2.5.5.3
Dissipation Factor	0.0040	0.0040	D _f , Silicone Property; IPC

Electrical Properties	@Frequency 1.00e+6 Metric	@Frequency 1.00e+6 English	TM 650-2.5.5.3 Comments
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Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 121 °C	0.250 hour @Temperature 250 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 21.1 °C	6.00 Month @Temperature 70.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	

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