

Arlon CP-499CA 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-499CA-Bulk-Compound.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 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	5.55 MPa	805 psi	Silicone Property; ASTM D412
Tensile Strength, Yield	6.03 MPa @Strain <=1.00 %	875 psi @Strain <=1.00 %	Silicone Property; Arlon-SAQ-TMS-008
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.00201 GPa	0.292 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	180 µm/m-°C @Temperature 20.0 - 160 °C	100 µin/in-°F @Temperature 68.0 - 320 °F	Silicone Property; ASTM E 831
Specific Heat Capacity	1.14 J/g-°C @Temperature 100 °C	0.272 BTU/lb-°F @Temperature 212 °F	Silicone Property; E1461-01
Thermal Conductivity	0.400 W/m-K @Temperature 100 °C	2.78 BTU-in/hr-ft ² -°F @Temperature 212 °F	Silicone Property; ASTM E 1530
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	-117 °C	-179 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	$\epsilon_{sub>f</sub>}$, Silicone Property; IPC TM 650-2.5.5.3
Dissipation Factor	0.0050 @Frequency 1.00e+6 Hz	0.0050 @Frequency 1.00e+6 Hz	$D_{sub>f</sub>}$, Silicone Property; IPC TM 650-2.5.5.3

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 7.22 °C	6.00 Month @Temperature 45.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Light Blue	
Plasticity	2.02 mm	Arlon SQA-TMS-005

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