

Arlon CP-594CX Bulk Compound

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

Material Notes:

Product Use: Electrically insulating electronic adhesive. Bonds without primer. Appearance: Gray, high viscosity gum
 UL94V-0: The product is designed to meet UL94V-0 flame resistance requirements but is not recognized by Underwriters Laboratories. 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-594CX-Bulk-Compound.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	Silicone Property; Arlon SQA-TMS-024

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	Silicone Property; ASTM D2240
Tensile Strength	4.72 MPa	685 psi	Silicone Property; ASTM D412
Tensile Strength, Yield	24.5 MPa @Strain <=1.00 %	3550 psi @Strain <=1.00 %	Silicone Property; Arlon-SAQ-TMS-008
Elongation at Break	125 %	125 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.00817 GPa	1.18 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	111 µm/m-°C @Temperature 20.0 - 160 °C	61.7 µin/in-°F @Temperature 68.0 - 320 °F	Silicone Property; ASTM E 831
Specific Heat Capacity	0.820 J/g-°C @Temperature 100 °C	0.196 BTU/lb-°F @Temperature 212 °F	Silicone Property; E1461-01
Thermal Conductivity	1.40 W/m-K @Temperature 100 °C	9.72 BTU-in/hr-ft ² -°F @Temperature 212 °F	Silicone Property; ASTM E 1530
Maximum Service Temperature, Air	204.0 °C	399.2 °F	
Minimum Service Temperature, Air	-100 °C	-148 °F	
Glass Transition Temp, Tg	-118 °C	-180 °F	Silicone Property; ASTM D3418

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Dielectric Constant	6.9 @Frequency 1.00e+6 Hz	6.9 @Frequency 1.00e+6 Hz	D _k , Silicone Property; IPC TM 650-2.5.5.3
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Dissipation Factor	0.0044 @Frequency 1.00e+6 Hz	0.0044 @Frequency 1.00e+6 Hz	D _f , Silicone Property; IPC TM 650-2.5.5.3
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Processing Properties	Metric	English	Comments
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Cure Time	15.0 min @Pressure 0.101 - 0.345 MPa, Temperature 121.0 °C	0.250 hour @Pressure 14.6 - 50.0 psi, Temperature 249.8 °F	Recommended Cure Cycle
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Shelf Life	6.00 Month @Temperature 7.00 °C	6.00 Month @Temperature 44.6 °F	From date of manufacture
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Descriptive Properties	Value	Comments
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Color	Gray	
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Plasticity	2.3 mm	Arlon SQA-TMS-005
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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