

Arlon R36580N015 0.015" (0.381 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Liner: FEP Product: Uncured Silicone Rubber Carrier: PTFE Coated Fiberglass Appearance: Grey silicone gum 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-R36580N015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	3.70 g/cc	0.134 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Liner
	76.2 microns	3.00 mil	Carrier
	381 microns	15.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	Silicone Property; ASTM D2240
Tensile Strength	3.34 MPa	485 psi	Silicone Property; ASTM D412
Elongation at Break	60 %	60 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.01957 GPa	2.838 ksi	ASTM E 831
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000379 GPa	0.0550 ksi	ASTM D 1002
Shear Strength	3.65 MPa	530 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	93.0 $\mu\text{m}/\text{m}\cdot\text{C}$	51.7 $\mu\text{in}/\text{in}\cdot\text{F}$	Silicone Property; ASTM E 831
Specific Heat Capacity	0.400 J/g $\cdot\text{C}$	0.0956 BTU/lb $\cdot\text{F}$	E 1461-01
Thermal Conductivity	0.750 W/m-K	5.20 BTU-in/hr-ft ² -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 $^{\circ}\text{F}$	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Volume Resistivity	500 ohm-cm	500 ohm-cm	Silicone Property; ASTM D991
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Processing Properties	Metric	English	Comments
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Cure Time	15.0 min @Temperature 141 °C	0.250 hour @Temperature 285 °F	Recommended Cure Cycle
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Shelf Life	6.00 Month @Temperature -15.0 - - 9.44 °C	6.00 Month @Temperature 5.00 - 15.0 °F	From date of manufacture
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Descriptive Properties	Value	Comments
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Color	Naturally Gray	
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Total Product Weight (g/m2)	1410	Arlon SQA-TMS-025
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