

## Arlon Thermabond® 99730N015 0.015" (0.381 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

Category : Polymer , Thermoset , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

### Material Notes:

Description: Electrically Conductive - Thermabond®. Bonds with primer.Design/Construction: Liner: FEP Product: Uncured Silicone Rubber Carrier: PTFE Coated FiberglassRecommended Primers: Dow Coring S2260Product Use: Electrically conductive electronic adhesive. Bonds with primer.Appearance: Naturally (gray) colored, high viscosity gum (tan or brown after cure)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-Thermabond-99730N015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php](http://www.lookpolymers.com/polymer_Arlon-Thermabond-99730N015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php)

Physical Properties	Metric	English	Comments
Density	3.70 g/cc	0.134 lb/in <sup>3</sup>	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	70	70	Silicone Property; ASTM D2240
Tensile Strength	2.65 MPa	385 psi	Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.00550 GPa	0.798 ksi	Silicone Property; Arlon-SAQ-TMS-008
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000200 GPa	0.0290 ksi	ASTM D1002
Shear Strength	3.45 MPa	500 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	93.0 µm/m-°C	51.7 µin/in-°F	ASTM E 831
Specific Heat Capacity	0.400 J/g-°C	0.0956 BTU/lb-°F	Silicone Property; E1461-01
Thermal Conductivity	2.50 W/m-K	17.4 BTU-in/hr-ft <sup>2</sup> -°F	Silicone Property; ASTM E 1530

Maximum Service Temperature, Air Thermal Properties	204 °C Metric	400 °F English	Comments
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	-116 °C	-177 °F	Silicone Property; ASTM D1356
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.050 ohm-cm	0.050 ohm-cm	Silicone Property; ASTM D991

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 141 °C	0.250 hour @Temperature 285 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 4.44 - 10.0 °C	6.00 Month @Temperature 40.0 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Naturally Gray	
Total Product Weight (g/m2)	1410	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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