

Arlon Thermabond® 48991A015 0.015" (0.381 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Description: Thermabond® G2pr - electrically insulating electronic adhesive. Bonds without primer.Design/Construction: Liner:

PolyethyleneSide 1: Uncured Silicone RubberSubstrate: Style 1080 FiberglassSide 2: Uncured Silicone RubberLiner: PolyethyleneProduct

Use: Electrically insulating electronic adhesive. Bonds without primer.Appearance: Light blue colored, high viscosity gum on fiberglass with polyethylene release liners.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-48991A015-0015-0381-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	38.1 microns	1.50 mil	Substrate; Arlon SQA-TMS-003
	38.1 microns	1.50 mil	Liner
	76.2 microns	3.00 mil	Liner
	152 microns	6.00 mil	Side 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	Side 2; Arlon SQA-TMS-003
	381 microns	15.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
Tensile Strength	5.86 MPa	850 psi	Silicone Property; ASTM D412
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.00603 GPa	0.875 ksi	Silicone Property; Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000276 GPa	0.0400 ksi	ASTM D1002
Shear Strength	5.86 MPa	850 psi	Lap; ASTM 1002

Thermal Properties	Metric	English	Comments
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CTE, linear Thermal Properties	180 µm/m-°C Metric	100 µin/in-°F English	Silicone Property; ASTM E 831 Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ASTM E 831
CTE, linear, Transverse to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ASTM E 831
Specific Heat Capacity	0.960 J/g-°C	0.229 BTU/lb-°F	Product Property; E1461-01
	1.14 J/g-°C	0.272 BTU/lb-°F	Silicone Property; E1461-01
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	Product Property; ASTM E 1530
	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°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	<= -100 °C	<= -148 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2	3.2	Product Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	Silicon Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	44.9 kV/mm	1140 kV/in	ASTM D149
Dissipation Factor	0.0040	0.0040	Product Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0050	0.0050	Silicon Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.0689 - 0.345 MPa, Temperature 121 °C	@Pressure 10.0 - 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 4.44 - 10.0 °C	@Temperature 40.0 - 50.0 °F	

Descriptive Properties	Value	Comments
Color	Light Blue	
Total Product Weight (g/m2)	439	Arlon SQA-TMS-025

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