

Arlon R36601A010 0.010" (0.254 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Description: Generation II Thermabond® NP electrically insulating electronic adhesive. Bonds without primer. Design/Construction: Liner 1: Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 1080 Fiberglass Side 2: Uncured Silicone Rubber Liner 2: Polyethylene 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-R36601A010-0010-0254-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	Liner 1
	38.1 microns	1.50 mil	Liner 2
	76.2 microns	3.00 mil	Substrate; Arlon SQA-TMS-003
	88.9 microns	3.50 mil	Side 1; Arlon SQA-TMS-003
	88.9 microns	3.50 mil	Side 2; Arlon SQA-TMS-003
	254 microns	10.0 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; ASTM E 831
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000331 GPa	0.0480 ksi	ASTM D 1002
Shear Strength	5.17 MPa	750 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	Product Property; ASTM E 831
	180 µm/m-°C	100 µin/in-°F	Silicone Property; ASTM E 831

Thermal Properties	Metric	English	Comments
Thermal Capacity	1.14 J/g-°C	0.272 BTU/lb-°F	Product Property; E 1461-01
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	Silicone Property; E 1461-01
	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	Product Property; ASTM E 1530
			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
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.4	3.4	D _k , Silicone Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	3.5	3.5	D _k , Product Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	53.1 kV/mm	1350 kV/in	ASTM D149
Dissipation Factor	0.0050	0.0050	D _f , Silicone Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.0050	0.0050	D _f , Product 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	

Descriptive Properties (g/m²)

Value

Comments TMS-025

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