

## Arlon R37480X008 0.008" (0.203 mm) Uncured Silicone Rubber with Substrate: PTFE Coated Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

### Material Notes:

Description: Primerless Thermabond® electrically insulating, thermally conductive, electronic adhesive. Bonds without primer. Design/Construction: Liner: FEP Add-on: Uncured Silicone Rubber Substrate: PTFE Coated Fiberglass Product Use: Electrically insulating electronic adhesive. Bonds without primer. Appearance: Gray, high viscosity gum on fluoropolymer 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-R37480X008-0008-0203-mm-Uncured-Silicone-Rubber-with-Substrate-PTFE-Coated-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-R37480X008-0008-0203-mm-Uncured-Silicone-Rubber-with-Substrate-PTFE-Coated-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 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
	203 microns	8.00 mil	Overall; Arlon SQA-TMS-003

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; ASTM E 831
Elongation at Break	125 %	125 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.00100 GPa	0.145 ksi	ASTM D 1002
	@Strain <=25.0 %	@Strain <=25.0 %	
Shear Strength	3.45 MPa	500 psi	Arlon SQA-TMS-018

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C	6.11 µin/in-°F	Silicone Property; ASTM E 831
	@Temperature 20.0 - 160 °C	@Temperature 68.0 - 320 °F	

Thermal Properties	Metric /g-°C	English TU/lb-°F	Comments
Specific Heat Capacity	@Temperature 100 °C	@Temperature 212 °F	Silicone Property; Arlon SQA-TMS-052
Thermal Conductivity	1.40 W/m-K @Temperature 100 °C	9.72 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	Silicone Property; Arlon SQA-TMS-022
Maximum Service Temperature, Air	204.0 °C	399.2 °F	
Minimum Service Temperature, Air	-136 °C	-212 °F	
Glass Transition Temp, Tg	-118 °C	-180 °F	Silicone Property; ASTM D3418
Flammability, UL94	V-0	V-0	Not Recognized

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.91 @Frequency 1.00e+6 Hz	6.91 @Frequency 1.00e+6 Hz	D <sub>k</sub> , Silicone Property; IPC TM 650 - 2.5.5.3
Dielectric Strength	31.5 kV/mm	800 kV/in	ASTM D149
Dissipation Factor	0.0044 @Frequency 1.00e+6 Hz	0.0044 @Frequency 1.00e+6 Hz	D <sub>f</sub> , Silicone Property; IPC TM 650 - 2.5.5.3

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 121 °C	0.250 hour @Temperature 250 °F	After product reaches cure temperature, Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 4.00 - 10.0 °C	6.00 Month @Temperature 39.2 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Gray	
Total Product Weight (g/m <sup>2</sup> )	479	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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