

Arlon R37622X008 0.008" (0.203 mm) Cured Silicone Rubber with Release PET Carrier

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

Material Notes:

Description: Thermabond® electrically insulating, thermally conductive, thermal interface material
Design/Construction: Liner:

Polyethylene Product: Cured Silicone Rubber Carrier: PTFE Coated Fiberglass Product Use: Electrically insulating electronic thermal

interface material. Appearance: Gray, solid (elastomer) with polymer 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-R37622X008-0008-0203-mm-Cured-Silicone-Rubber-with-Release-PET-Carrier.php

Physical Properties	Metric	English	Comments
Density	2.80 g/cc	0.101 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	38.1 microns	1.50 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	3550 psi	Silicone Property; ASTM E 831
	@Strain <=1.00 %	@Strain <=1.00 %	
Elongation at Break	125 %	125 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property

Thermal Properties	Metric	English	Comments
CTE, linear	111 μm/m-°C	61.7 μin/in-°F	Silicone Property; ASTM E 831
	@Temperature 20.0 - 160 °C	@Temperature 68.0 - 320 °F	
Specific Heat Capacity	0.820 J/g-°C	0.196 BTU/lb-°F	Silicone Property; Arlon SQA-TMS-052
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	2.11 W/m-K	14.6 BTU-in/hr-ft ² -°F	Product Property; Arlon SQA-TMS-054
	1.40 W/m-K	9.72 BTU-in/hr-ft ² -°F	Silicone Property; Arlon SQA-TMS-

Thermal Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	022 Comments
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	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 _k , 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 _f , Silicone Property; IPC TM 650 - 2.5.5.3

Processing Properties	Metric	English	Comments
Shelf Life	60.0 Month @Temperature 21.0 - 27.0 °C	60.0 Month @Temperature 69.8 - 80.6 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Gray	
Total Product Weight (g/m2)	479	Arlon SQA-TMS-025

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