

Arlon 56609R028 0.029" Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: 3 mil PE Layer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: Style 1564

Fiberglass This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-56609R028-0029-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	Layer 1; Arlon SQA-TMS-003
	178 microns	7.00 mil	Layer 2; Arlon SQA-TMS-003
	457 microns	18.0 mil	Substrate
	737 microns	29.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	Silicone Property; ASTM D2240
Tensile Strength	7.93 MPa	1150 psi	Silicone Property; ASTM D412
Elongation at Break	350 %	350 %	Silicone Property; ASTM D412
Tear Strength	16.7 kN/m	95.0 pli	Silicone Property; ASTM D6242
Peel Strength	2.77 kN/m	15.8 pli	Bond Strength; ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	HB	HB	at 220°C per card E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.6 kV/mm	370 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	31.5	Arlon SQA-TMS-025

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