

Arlon 55586XC028 0.0295" Cured/Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass Side 2: Uncured Silicone Rubber Interleave: 3 mil PE 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-55586XC028-00295-CuredUncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	Side 2 Silicone Property; Arlon SQA-TMS-024
	1.56 g/cc	0.0564 lb/in ³	Side 1 Silicone Property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	Side 1; Arlon SQA-TMS-003
	165 microns	6.50 mil	Side 2; Arlon SQA-TMS-003
	483 microns	19.0 mil	Substrate; Arlon SQA-TMS-003
	749 microns	29.5 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Side 2 Silicone Property; ASTM D2240
	55	55	Side 1 Silicone Property; ASTM D2240
Tensile Strength	3.65 MPa	530 psi	Side 1 Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 2 Silicone Property; ASTM D412
Elongation at Break	300 %	300 %	Side 1 Silicone Property; ASTM D412
	620 %	620 %	Side 2 Silicone Property; ASTM D412
Tear Strength	7.01 kN/m	40.0 pli	Side 1 Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 2 Silicone Property; ASTM D624
Peel Strength	2.49 kN/m	14.2 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Inert Thermal Properties	232 °C Metric	450 °F English	Comments
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
UL RTI, Electrical	200 °C	392 °F	E54153
UL RTI, Mechanical without Impact	200 °C	392 °F	E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.3 kV/mm	540 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	
	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 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	Product
	White	Substrate
Total Product Weight (oz/yd2)	38.5	Arlon SQA-TMS-025

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