

Arlon 55146XA028 0.0295" (0.749 mm) Uncured/Cured Silicone Rubber

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

Material Notes:

Design/Construction: Interleave: Polyethylene Side 2: Uncured Silicone Rubber Substrate: Style 162 Fiberglass Side 1: Cured Silicone Rubber 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-55146XA028-00295-0749-mm-UncuredCured-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Polyethylene, Interleave
	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	Style 162 Fiberglass, Substrate; Arlon SQA-TMS-003
	749 microns	29.5 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Silicone Property; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	[ppiw], Silicone Property; ASTM D624
Peel Strength	1.30 kN/m	7.40 pli	(S2 to S2), Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
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
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Dielectric Strength Electrical Properties	24.3 kV/mm Metric	617 kV/in English	ASTM D149 Comments
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Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	
Total Product Weight (oz/yd ²)	27.8	Arlon SQA-TMS-025

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