

Arlon 55578GA028 0.0280" Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: LDPE Side 2 Layer 2: Uncured Silicone Rubber Side 2 Layer 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass Side 1: Cured Silicone Rubber 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-55578GA028-00280-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	38.1 microns	1.50 mil	Side 1; Arlon SQA-TMS-003
	50.8 microns	2.00 mil	Side 2 Layer 1; Arlon SQA-TMS-003
	216 microns	8.50 mil	Side 2 Layer 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	711 microns	28.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Silicone Property; Arlon SQA-TMS-014
Tensile Strength	7.58 MPa	1100 psi	Silicone Property; Arlon SQA-TMS-008
Elongation at Break	650 %	650 %	Silicone Property; Arlon SQA-TMS-008
Peel Strength	5.26 kN/m	30.0 pli	Bond Strength (S2 to S2); Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.3 kV/mm	465 kV/in	Arlon SQA-TMS-020

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	Green	Product
	Naturally White	Substrate
Total Product Weight (oz/yd2)	23.4	Arlon SQA-TMS-025

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