

Arlon 55579R031H 0.0315" (0.800 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: LDPE Layer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass 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-55579R031H-00315-0800-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	63.5 microns	2.50 mil	Interleave
	127 microns	5.00 mil	Layer 1; Arlon SQA-TMS-003
	267 microns	10.5 mil	Layer 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	800 microns	31.5 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Layer 1, Silicone Property; ASTM D2240
	52	52	Layer 2, Silicone Property; ASTM D2240
Tensile Strength	6.14 MPa	890 psi	Layer 2, Silicone Property; ASTM D412
	7.58 MPa	1100 psi	Layer 1, Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Layer 2, Silicone Property; ASTM D412
	650 %	650 %	Layer 1, Silicone Property; ASTM D412
Peel Strength	4.33 kN/m	24.7 pli	Bond Strength; ASTM D624

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	220 °C	428 °F	

Thermal Properties	Metric	English	Comments
UL FTI, Mechanical without Impact	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149

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 177 °C	@Pressure 50.0 psi, Temperature 350 °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	Red	
Total Product Weight (oz/yd2)	32.1	Arlon SQA-TMS-025

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