

Arlon 51576R031 0.031" (0.787 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Cured Silicone Rubber Substrate: 7628 Style Fiberglass Side 2: Uncured 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-51576R031-0031-0787-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	Side 2, Silicone Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in ³	Side 1, Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Side 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Interleave
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	508 microns	20.0 mil	Side 2; Arlon SQA-TMS-003
	787 microns	31.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Side 2, Silicone Property; ASTM D2240
	52	52	Side 1, Silicone Property; ASTM D2240
Tensile Strength	6.14 MPa	890 psi	Side 1, Silicone Property; ASTM D412
	7.58 MPa	1100 psi	Side 2, Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Side 1, Silicone Property; ASTM D412
	650 %	650 %	Side 2, Silicone Property; ASTM D412
Peel Strength	4.38 kN/m	25.0 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	

Thermal Properties <small>UL RTI, Electrical</small>	Metric <small>220 °C</small>	English <small>392 °F</small>	Comments
UL RTI, Mechanical without Impact	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	27.6 kV/mm	700 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 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	30.4	Arlon SQA-TMS-025

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