

Arlon 55576R030 0.030" (0.762 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass Side 2: Uncured Silicone Rubber Interleave: LDPE 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-55576R030-0030-0762-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	Side 2, Silicone Property; Arlon SQA-TMS-024
	1.33 g/cc	0.0480 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
	229 microns	9.00 mil	Side 2; Arlon SQA-TMS-003
	457 microns	18.0 mil	Substrate; Arlon SQA-TMS-003
	762 microns	30.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	36	36	Side 2, Silicone Property; ASTM D2240
	50	50	Side 1, Silicone Property; ASTM D2240
Tensile Strength	5.34 MPa	775 psi	Side 1, Silicone Property; ASTM D412
	6.38 MPa	925 psi	Side 2, Silicone Property; ASTM D412
Elongation at Break	325 %	325 %	Side 1, Silicone Property; ASTM D412
	550 %	550 %	Side 2, Silicone Property; ASTM D412
Tear Strength	8.77 kN/m	50.0 pli	Side 1, Silicone Property; ASTM D624
	14.5 kN/m	83.0 pli	Side 2, Silicone Property; ASTM D624
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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.7 kV/mm	425 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)	28.5	Arlon SQA-TMS-025

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