

Arlon 5559R030 0.030" (0.762 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: PolyethyleneSide 1: Uncured Silicone Rubber Substrate: Style 162 FiberglassThis 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-5559R030-0030-0762-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	305 microns	12.0 mil	Side 1; 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	52	52	Silicone Property; ASTM D2240
Tensile Strength	6.72 MPa	975 psi	Silicone Property; ASTM D412
Elongation at Break	300 %	300 %	Silicone Property; ASTM D412
Tear Strength	12.3 kN/m	70.0 pli	Die B, Silicone Property; ASTM D624
Peel Strength	2.31 kN/m	13.2 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	17.7 kV/mm	450 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
	120 min	2.00 hour	

Cure Time Processing Properties	Metric @ Temperature 204 °C	English @ Temperature 400 °F	Recommended Postcure Cycle Comments
	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 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	27.8	Arlon SQA-TMS-025

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