

Arlon 55103R030 0.030" (0.762 mm) 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 RubberSubstrate: Style 162 FiberglassSide 2: Cured 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-55103R030-0030-0762-mm-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	178 microns	7.00 mil	Side 1; Arlon SQA-TMS-003
	178 microns	7.00 mil	Side 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	762 microns	30.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Silicone Property; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	[ppiw], Die B, Silicone Property; 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	

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 204 °C	2.00 hour @Temperature 400 °F	Recommended Postcure Cycle
Shelf Life	60.0 Month	60.0 Month	From date of manufacture

Processing Properties	@Temperature 21.1 °C Metric	@Temperature 70.0 °F English	Comments
Descriptive Properties	Value	Comments	
Color	Red		
Mullen Burst Strength	470 psi	ASTM D751-06	
Total Product Weight (oz/yd2)	31.5	Arlon SQA-TMS-025	
Uncoated Fabric Break Strength	330 lb/in	Fill Direction, Substrate Property, Arlon SQA-TMS-026	
	560 lb/in	Warp Direction, Substrate Property, Arlon SQA-TMS-026	

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