

Arlon 44430B020 0.020" (0.508 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 RubberSubstrate: Style 1165 FiberglassProduct Use: Belting materialAppearance: Black colored high viscosity gum on fiberglass fabricThis 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-44430B020-0020-0508-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Substrate; Arlon SQA-TMS-003
	406 microns	16.0 mil	Side 1; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	Silicone Property; ASTM D2240
Tensile Strength	6.28 MPa	911 psi	Silicone Property; ASTM D412
Elongation at Break	322 %	322 %	Silicone Property; ASTM D412
Tear Strength	12.6 kN/m	72.0 pli	[ppiw], Silicone Property; ASTM D624
Peel Strength	2.14 kN/m	12.2 pli	Bond Strength; Arlon SQA-TMS-011

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	38.7 kV/mm	982 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	
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Black	
	White	Substrate
Total Product Weight (oz/yd2)	19.5	Arlon SQA-TMS-025

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