

Arlon R30711R020 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 1: Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 1165 Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: Polyethylene Appearance: Red silicone gum on fiberglass cloth 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-R30711R020-0020-0508-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave 1
	76.2 microns	3.00 mil	Interleave 2
	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Substrate; Arlon SQA-TMS-003
	254 microns	10.0 mil	Side 2; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	47	47	Silicone Property; ASTM D2240
Tensile Strength	6.89 MPa	1000 psi	Silicone Property; ASTM D412
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Peel Strength	2.63 kN/m	15.0 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	
Flammability Test	<= 6.0	<= 6.0	[in], Char Length; FAR 25.853 App. F, Pt1, Sec A1ii
	<= 15	<= 15	[sec], Flame Time; FAR 25.853 App. F, Pt1, Sec A1ii

Electrical Properties	Metric	English	Comments
Dielectric Strength	37.4 kV/mm	950 kV/in	Arlon SQA-TMS-020

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Pressure 0.345 MPa, Temperature 121 °C	0.250 hour @Pressure 50.0 psi, Temperature 250 °F	Recommended Bond Cycle
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Blue	Interleave 1
	Blue	Interleave 2
	Red	
	Red	Substrate
Total Product Weight (oz/yd ²)	19.2	Arlon SQA-TMS-025

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