

Arlon R35798R013 0.013" (0.330 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Top Layer of Side 1: Metalized Polymer Film Bottom Layer of Side 1: Cured Silicone Rubber Substrate: Style 138
Fiberglass Side 2: Uncured 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-R35798R013-0013-0330-mm-UncuredCured-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	25.4 microns	1.00 mil	Laminated Metalized Polymer Film; Arlon SQA-TMS-003
	38.1 microns	1.50 mil	Side 1; Arlon SQA-TMS-003
	63.5 microns	2.50 mil	Side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	330 microns	13.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Silicone Property; ASTM D2240
Tensile Strength	5.86 MPa	850 psi	Silicone Property; ASTM D412
Elongation at Break	350 %	350 %	Silicone Property; ASTM D412
Peel Strength	1.05 kN/m	6.00 pli	Bond Strength(S1 to S2); SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability Test	<= 3.0	<= 3.0	[in], Char Length; FTMS 191A; Method 5903
	<= 25	<= 25	[sec], Flame and Glow; FTMS 191A; Method 5903
Shrinkage, MD	0.30 %	0.30 %	

Thermal Properties	Metric @Temperature 200 °C, Time 600 sec	English @Temperature 392 °F, Time 0.167 hour	Comments
Shrinkage, TD	0.50 % @Temperature 200 °C, Time 600 sec	0.50 % @Temperature 392 °F, Time 0.167 hour	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Pressure 0.345 MPa, Temperature 177 °C	0.250 hour @Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	3.00 Month @Temperature 4.44 °C	3.00 Month @Temperature 40.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Total Product Weight (oz/yd2)	13.9	Arlon SQA-TMS-025

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