

Arlon R35551X015 0.015" Uncured Silicone Rubber with Woven Fabric Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Interleave: 0.003" Polyethylene Side 1: Uncured Silicone Rubber Substrate: Primed 3M Nextel 312 Woven Fabric AF-10, HCSide 2: Uncured Silicone Rubber This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-R35551X015-0015-Uncured-Silicone-Rubber-with-Woven-Fabric-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Side 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Side 2; Arlon SQA-TMS-003
	229 microns	9.00 mil	Substrate; Arlon SQA-TMS-003
	381 microns	15.0 mil	Overall thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	42	42	Silicone Property; ASTM D2240
Tensile Strength	5.83 MPa	845 psi	Silicone Property; ASTM D412
Elongation at Break	500 %	500 %	Silicone Property; ASTM D412
Peel Strength	1.58 kN/m	9.00 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	

Processing Properties	Metric	English	Comments
Shear Life	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	Product
	White	Substrate
Total Product Weight (oz/yd2)	17.2	Arlon SQA-TMS-025

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