

Arlon 28751R015 0.015" (0.381 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 RubberSubstrate: Style 1528 FiberglassSide 2: Uncured Silicone RubberInterleave 2: PolyethyleneAppearance: Red silicone gum on fiberglass clothThis 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-28751R015-0015-0381-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	38.1 microns	1.50 mil	Interleave 1
	38.1 microns	1.50 mil	Interleave 2
	102 microns	4.00 mil	Side 1
	102 microns	4.00 mil	Side 2
	188 microns	7.40 mil	Substrate
Outgassing - Total Mass Loss	0.28 %	0.28 %	No Post Cure, CVCM, Silicone Property; ASTM E 595
	1.07 %	1.07 %	No Post Cure, TML, Silicone Property; ASTM E 595
	0.10 % @Temperature 218 °C, Time 7200 sec	0.10 % @Temperature 425 °F, Time 2.00 hour	Post Cure, CVCM, Silicone Property; ASTM E 595
	0.34 % @Temperature 218 °C, Time 7200 sec	0.34 % @Temperature 425 °F, Time 2.00 hour	Post Cure, TML, Silicone Property; ASTM E 595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	48	48	Silicone Property; ASTM D2240
Tensile Strength	5.86 MPa	850 psi	Silicone Property; ASTM D412
Elongation at Break	450 %	450 %	Silicone Property; ASTM D412

Tear Strength Mechanical Properties	12.3 kN/m Metric	70.0 pli English	Die B. Silicone Property; ASTM D624 Comments
Peel Strength	1.58 kN/m	9.00 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	27.6 kV/mm	700 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 218 °C	@Temperature 425 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 18.3 - 23.9 °C	@Temperature 65.0 - 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd ²)	17	Arlon SQA-TMS-025

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