

Arlon 45541R012 0.012" (0.305 mm) Uncured Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Side 1: Uncured Rubber Side 2: Uncured Rubber Appearance: Red silicone gum 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-45541R012-0012-0305-mm-Uncured-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	38.1 microns	1.50 mil	Polyethylene Interleave
	76.2 microns	3.00 mil	Prime Coated 113 Fiberglass, Substrate
	152 - 203 microns	6.00 - 8.00 mil	Side 1
	279 - 330 microns	11.0 - 13.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	Compound Property
Tensile Strength	5.90 - 7.205 MPa	855 - 1045 psi	Compound Property
Elongation at Break	340 - 410 %	340 - 410 %	Compound Property
Peel Strength	>= 0.526 kN/m	>= 3.00 pli	[ppi], Bond Strength

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	>= 15.7 kV/mm	>= 400 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Temperature 177 °C	@Temperature 350 °F	
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 232 °C	@Temperature 450 °F	

Processing Properties	Metric ^{month}	English ^{month}	Comments
Shelf Life	@Temperature <=23.9 °C	@Temperature <=75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	10 - 14	
Uncoated Fabric Break Strength	150 lb/in	Warp Direction, Substrate Property
	70 lb/in	Fill Direction, Substrate Property

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