

Arlon 56810R025 0.025" (0.635 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Uncured Silicone Rubber Substrate: 1564 Style Fiberglass 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-56810R025-0025-0635-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	229 microns	9.00 mil	Side 1; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	635 microns	25.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Silicone Property; ASTM D412
Elongation at Break	300 %	300 %	Silicone Property; ASTM D412
Peel Strength	1.38 kN/m	7.90 pli	(S1 to S2) 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	
Flammability Test	0.75	0.75	[in], Char Length; FTMS 191A Method 5903
	12.3	12.3	[sec], Flame and Glow Time; FTMS 191A Method 5903

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	

Processing Properties	Metric _{in}	English _{our}	Comments
	@Pressure 0.345 MPa, Temperature 138 °C	@Pressure 50.0 psi, Temperature 280 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 21.1 °C	6.00 Month @Temperature 70.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd ²)	26.8	Arlon SQA-TMS-025

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