

Arlon 55636R025 0.025" Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: 3 mil PE Side 2: Uncured Silicone Rubber Substrate: Style 162 Fiberglass Side 1: Cured 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-55636R025-0025-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Side 1 Silicone Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in ³	Side 2 Silicone Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	Side 1; Arlon SQA-TMS-003
	178 microns	7.00 mil	Side 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	635 microns	25.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Side 1 Silicone Property; ASTM D2240
	60	60	Side 2 Silicone Property; ASTM D2240
Tensile Strength	6.21 MPa	900 psi	Side 1 Silicone Property; ASTM D412
	6.21 MPa	900 psi	Side 2 Silicone Property; ASTM D412
Elongation at Break	200 %	200 %	Side 1 Silicone Property; ASTM D412
	300 %	300 %	Side 2 Silicone Property; ASTM D412
Peel Strength	1.31 kN/m	7.50 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.6 kV/mm	600 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 177 °C	0.250 hour @Temperature 350 °F	Recommended Cure Cycle; under pressure
Shelf Life	6.00 Month @Temperature 21.1 °C	6.00 Month @Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	29	Arlon SQA-TMS-025

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