

Arlon 55759R028 0.029" (0.737 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: PolyethyleneLayer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: 162 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-55759R028-0029-0737-mm-UncuredCured-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	76.2 microns	3.00 mil	Interleave
	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	Side 2; Arlon SQA-TMS-003
	457 microns	18.0 mil	Substrate; Arlon SQA-TMS-003
	737 microns	29.0 mil	Overall; Arlon SQA-TMS-003
Outgassing - Total Mass Loss	0.10 %	0.10 %	Post Cured - CVCM; ASTM E 595
	0.28 %	0.28 %	Cured - CVCM; ASTM E 595
	0.34 %	0.34 %	Post Cured - TML; ASTM E 595
	1.07 %	1.07 %	Cured - TML; 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	12.3 kN/m	70.0 pli	Die B, Silicone Property; ASTM D624
Peel Strength	1.49 kN/m	8.50 pli	Bond Strength; ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	

Minimum Service Temperature, Air Thermal Properties	-56.7 °C Metric	-70.0 °F English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	14.4 kV/mm	365 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 177 °C	@Pressure 50.0 psi, Temperature 350 °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	
Total Product Weight (oz/yd2)	28	Arlon SQA-TMS-025

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China