

Arlon R36029R028 0.028" (0.711 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: Polyethylene Layer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: Style 7628
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-R36029R028-0028-0711-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Silicone Property, Layer 1; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in ³	Silicone Property, Layer 2; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Layer 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	Layer 2; Arlon SQA-TMS-003
	457 microns	18.0 mil	Substrate; Arlon SQA-TMS-003
	711 microns	28.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property, Layer 1; ASTM D2240
	60	60	Silicone Property, Layer 2; ASTM D2240
Tensile Strength	4.83 MPa	700 psi	Silicone Property, Layer 1; ASTM D412
	4.83 MPa	700 psi	Silicone Property, Layer 2; ASTM D412
Elongation at Break	200 %	200 %	Silicone Property, Layer 1; ASTM D412
	200 %	200 %	Silicone Property, Layer 2; ASTM D412
Peel Strength	1.58 kN/m	9.00 pli	Bond Strength (S1 to S1); ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air			

Thermal Properties	^{232 °C} Metric	^{450 °F} English	Comments
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 135 °C	@Pressure 50.0 psi, Temperature 275 °F	
Shelf Life	3.00 Month	3.00 Month	From date of manufacture
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd ²)	26.7	Arlon SQA-TMS-025

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