

Arlon R39091R036 0.036" (0.914 mm) Uncured Silicone Rubber with Nomex Fabric Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Uncured Silicone RubberSubstrate: Style 1574 Nomex FabricSide 2: Uncured SiliconeInterleave: Polyethylene 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-R39091R036-0036-0914-mm-Uncured-Silicone-Rubber-with-Nomex-Fabric-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	63.5 microns	2.50 mil	Interleave
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	254 microns	10.0 mil	Side 1; Arlon SQA-TMS-003
	457 microns	18.0 mil	Side 2; Arlon SQA-TMS-003
	914 microns	36.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Silicone Property; ASTM D412
	18.56 MPa	2692 psi	Fill; Arlon SQA-TMS-008
	19.4 MPa	2810 psi	Warp; Arlon SQA-TMS-008
Elongation at Break	16 %	16 %	Warp; Arlon SQA-TMS-008
	19 %	19 %	Fill; Arlon SQA-TMS-008
	225 %	225 %	Silicone Property; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	ASTM D624
Peel Strength	1.45 kN/m	8.30 pli	Bond Strength (S1 to S2); Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	232 °C Metric	450 °F English	Comments
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

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 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	

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