

Arlon 61089R040 0.040" (1.02 mm) Uncured/Cured Silicone Rubber with Denier Vectran HS 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: 1000 Denier

Vectran HS Appearance: Red silicone gum on Vectran fabric 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-61089R040-0040-102-mm-UncuredCured-Silicone-Rubber-with-Denier-Vectran-HS-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.375 g/cc	0.04968 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	152 microns	6.00 mil	Layer 2; Arlon SQA-TMS-003
	356 microns	14.0 mil	Layer 1; Arlon SQA-TMS-003
	508 microns	20.0 mil	Substrate; Arlon SQA-TMS-003
	1020 microns	40.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35	35	Silicone Property; ASTM D2240
Tensile Strength	6.21 MPa	900 psi	Silicone Property; ASTM D412
Elongation at Break	750 %	750 %	Silicone Property; ASTM D412
Peel Strength	7.05 kN/m	40.2 pli	(S1 to S1) Bond Strength; Arlon SQA - TMS-011

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	<= 3.0	<= 3.0	[in], Char Length; FAR25.853 Appendix F Pt. 1 Section (a),(1).(ii)
	<= 15	<= 15	[sec], Flame and Glow Time; FAR25.853 Appendix F Pt. 1 Section (a),(1).(ii)

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.2 kV/mm	462 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 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	Light Yellow	Substrate
	Red	
Total Product Weight (oz/yd2)	35.3	Arlon SQA-TMS-025

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