

Arlon 10842S018 0.018" (0.457 mm) Fully Cured, Unsupported, Silicone Rubber

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction:Side 1: Fully Cured, Unsupported, Silicone Rubber Appearance: Dark red silicone rubberThis 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-10842S018-0018-0457-mm-Fully-Cured-Unsupported-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Polyethylene Interleave
	457 microns	18.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	Compound Property; ASTM D2240
Tensile Strength	8.62 MPa	1250 psi	Compound Property; ASTM D412
Tensile Strength, Yield	1.72 MPa @Strain 100 %	250 psi @Strain 100 %	Compound Property; Arlon SQA-TMS-008
Elongation at Break	800 %	800 %	Compound Property; ASTM D412
Tear Strength	>= 38.6 kN/m	>= 220 pli	Compound Property; ASTM D624
Compression Set	19 %	19 %	Compound Property; Arlon SQA-TMS-017

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

Processing Properties	Metric	English	Comments
Shelf Life	60.0 Month	60.0 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Saddle Brown	

Descriptive Properties (gz/yd2)

Value

Comments TMS-025

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