

Arlon 91B32R016AC Aluminum Clad Silicone Press Pad with "C-finish"

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction:Side 2: Alloy 1100 H18 Aluminum FoilSide 1: Cured Silicone RubberThis data represents typical values for the production material and should not be used as material specifications.Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-91B32R016AC-Aluminum-Clad-Silicone-Press-Pad-with-C-finish.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	Silicone Property; Arlon SQA-TMS-024
	2.70 g/cc	0.0975 lb/in ³	Alloy 1100 Property (Annealed)
Thickness	102 microns	4.00 mil	Laminated Aluminum Foil; Arlon SQA-TMS-003
	305 microns	12.0 mil	Silicone; Arlon SQA-TMS-003
	406 microns	16.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Tensile Strength	10.21 MPa	1481 psi	Silicone Property; Arlon SQA-TMS-008
	165 MPa	23900 psi	Alloy 1100 Property; ASTM D345
Tensile Strength, Yield	145 MPa	21000 psi	Alloy 1100 Property; ASTM E345
Elongation at Break	263 %	263 %	Silicone Property; Arlon SQA-TMS-008
Peel Strength	1.77 kN/m	10.1 pli	Silicone Compound Property - Adhesion Strength to Aluminum; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 - 300 °C	212 - 572 °F	
	@Pressure 0.000 - 10.0 MPa	@Pressure 0.000 - 1450 psi	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	>= 99 %	>= 99 %	Alloy 1100

Processing Properties	Metric	English	Comments
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Processing Properties	12.0 Month Metric	12.0 Month English	Comments
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Rigidity (grams)	8500	Arlon Gurley Test; Alloy 1100 Property
Temper	H18	
Total Product Weight (oz/yd2)	19.5	Arlon SQA-TMS-025

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