

Arlon 680-R3839R 0.084" (2.13 mm) Cured Silicone Coating with Silica-based Substrate

Category : Polymer , Thermoset , Silicone

Material Notes:

Design/Construction:Side 1: Cured Silicone Coating Substrate: Silica-basedSide 2: Cured Silicone Coating Rubber Application

Advantages:Extremely low thermal conductivityThermally stableBondable to silicone rubber2-3 times thinner than competing silicone

foamFlexible and light weight Energy savingsRecommended process method for particle free applications: Vacuum Bag Cure Cycle: 15

minutes @ 250°F under 15 psi-Oversized uncured silicone rubber to seal the exposed edgesProduct Use: Thermal insulationAppearance:

Red silicone rubber on black fabricThis 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-680-R3839R-0084-213-mm-Cured-Silicone-Coating-with-Silica-based-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	50.8 microns	2.00 mil	Side 1; Arlon SQA-TMS-003
	50.8 microns	2.00 mil	Side 2; Arlon SQA-TMS-003
	2030 microns	80.0 mil	Substrate; Arlon SQA-TMS-003
	2130 microns	84.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Peel Strength	>= 0.175 kN/m	>= 1.00 pli	to Arlon 51270R015, Bond Strength; Arlon SQA -TMS-011

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ft ² -°F	Arlon SQA-TMS-022
	@Temperature 200 °C	@Temperature 392 °F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-7.61 °C	18.3 °F	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.103 MPa, Temperature 121 °C	@Pressure 15.0 psi, Temperature 250 °F	
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	Red	
Total Product Weight (oz/yd ²)	16.7	Arlon SQA-TMS-025
Uncoated Fabric Break Strength	18 lb/in	Wrap Direction, Arlon SQA-TMS-026

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