

Arlon R36812T010 0.010" Cured Silicone Rubber with Laminated ETFE Film Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction:Liner: N/ASide 1: Cured Silicone RubberSubstrate: Laminated ETFE FilmChemical Compatibility: Alkalis, Organic and Inorganic acids, Amines, Epoxies, Aromatic compounds, Chlorine compounds, Ethers, Ketones, Esters, Alcohols and HydrocarbonsThis 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-R36812T010-0010-Cured-Silicone-Rubber-with-Laminated-ETFE-Film-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Silicone Property; Arlon SQA-TMS-024
	1.70 g/cc	0.0614 lb/in ³	Laminated ETFE Film Property; ASTM D792
Thickness	50.8 microns	2.00 mil	Substrate; Arlon SQA-TMS-003
	203 microns	8.00 mil	Side 1; Arlon SQA-TMS-003
	254 microns	10.0 mil	Overall thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
	67	67	Laminated ETFE Film Property; ASTM D2240
Tensile Strength	8.96 MPa	1300 psi	Silicone Property; ASTM D412
	41.4 MPa	6000 psi	Laminated ETFE Film Property; ASTM D638
Elongation at Break	6.0 - 300 %	6.0 - 300 %	Product Property (Plastic Deformation of ETFE Film); ASTM D638
	300 %	300 %	Laminated ETFE Film Property; ASTM D638
	700 %	700 %	Silicone Property; ASTM D412
Elongation at Yield	0.00 - 6.0 %	0.00 - 6.0 %	Product Property (Elastic Deformation of ETFE Film); ASTM D638
Tear Strength	39.4 kN/m	225 pli	Silicone Property; Arlon SQA-TMS-029

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	Laminated ETFE Film Property; Arlon SQA-TMS-022
	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	Silicone Property; Arlon SQA-TMS-022
Maximum Service Temperature, Inert	154 °C	310 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	78.7 kV/mm	2000 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Shelf Life	60.0 Month	60.0 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Break Strength (ppiw)	13	at 212°F; Arlon SQA-TMS-008
	23	at 68°F; Arlon SQA-TMS-008
	9	at 302°F; Arlon SQA-TMS-008
Color	Translucent	
Total Product Weight (oz/yd ²)	9.6	Arlon SQA-TMS-025

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