

Arlon R37208T017 0.017" (0.432 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Liner

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Liner: PTFE Coated Fiberglass Side 1: Uncured Silicone Rubber Substrate: Laminated Tefzel® Substrate: Treated for adhesion
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-R37208T017-0017-0432-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Liner.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	Silicone Property; Arlon SQA-TMS-024
	1.70 g/cc	0.0614 lb/in ³	Substrate Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	Substrate; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Liner
	381 microns	15.0 mil	Side 1; Arlon SQA-TMS-003
	432 microns	17.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	Silicone Property; ASTM D2240
	67	67	Substrate Property; ASTM D2240
Tensile Strength	6.89 MPa	1000 psi	Silicone Property; ASTM D412
	41.4 MPa	6000 psi	Substrate Property; ASTM D412
Elongation at Break	300 %	300 %	Substrate Property; ASTM D412
	950 %	950 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.000517 GPa	0.0750 ksi	Silicone Property; ASTM E 831
Poissons Ratio	0.50	0.50	Approximately, Silicone Property

Thermal Properties	Metric	English	Comments
CTE, linear	335 µm/m-°C	186 µin/in-°F	Silicone Property; ASTM E 831
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	Silicone Property; ASTM E 1530

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	31.1 kV/mm	790 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Pressure 0.103 - 0.345 MPa, Temperature 121 °C	0.250 hour @Pressure 15.0 - 50.0 psi, Temperature 250 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 4.44 - 10.0 °C	6.00 Month @Temperature 40.0 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Translucent	
Total Product Weight (oz/yd2)	14.9	Arlon SQA-TMS-025

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