

Arlon R37230R006 0.006" (0.152 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Liner: FEP Add-on: Uncured Silicone Rubber Substrate: PTFE Coated Fiberglass 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-R37230R006-0006-0152-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	
	152 microns	6.00 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	Silicone Property; ASTM D2240
Tensile Strength	6.89 MPa	1000 psi	Silicone Property; ASTM D412
Elongation at Break	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
Shear Strength	3.96 MPa	575 psi	Arlon SQA-TMS-018

Thermal Properties	Metric	English	Comments
CTE, linear	335 µm/m-°C	186 µin/in-°F	Silicone Property; ASTM E 831
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	Silicone Property; Arlon SQA-TMS-022
Maximum Service Temperature, Air	204.0 °C	399.2 °F	
Minimum Service Temperature, Air	-136 °C	-212 °F	

Processing Properties	Metric	English	Comments
	15.0 min	0.250 hour	
Cure Time	@Pressure 0.103 -	@Pressure 15.0 - 50.0	Recommended Cure Cycle

Processing Properties	0.345 MPa, Metric Temperature 121 °C	psi, English Temperature 250 °F	Comments
Shelf Life	6.00 Month @Temperature 4.00 - 10.0 °C	6.00 Month @Temperature 39.2 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (g/m2)	175	Arlon SQA-TMS-025

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