

Arlon 25188T020 0.020" Uncured Silicone Rubber/Laminated ETFE Film

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Liner: 0.003" PTFE Coated Fiberglass Side 1: Uncured Silicone Rubber Substrate: Laminated ETFE Film-treated for adhesion This 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-25188T020-0020-Uncured-Silicone-RubberLaminated-ETFE-Film.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	Laminated ETFE Film Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	ETFE Film; Arlon SQA-TMS-003
	457 microns	18.0 mil	Side 1; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	Silicone Property; Arlon SQA-TMS-014
Hardness, Shore D	67	67	Laminated ETFE Film Property; Arlon SQA-TMS-014
Tensile Strength	6.89 MPa	1000 psi	Silicone Property; Arlon SQA-TMS-008
	41.4 MPa	6000 psi	Laminated ETFE Film Property; Arlon SQA-TMS-008
Elongation at Break	300 %	300 %	Laminated ETFE Film Property; Arlon SQA-TMS-008
	950 %	950 %	Silicone Property; Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	Silicone Property
Tear Strength	13.1 kN/m	75.0 pli	Silicone Property; Arlon SQA-TMS-029
Peel Strength	2.10 kN/m	12.0 pli	Ply-Adhesion; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
CTE, linear			Silicone Property; Arlon SQA-TMS-

Thermal Properties	335 $\mu\text{m}/\text{m}^{\circ}\text{C}$ Metric	186 $\mu\text{in}/\text{in}^{\circ}\text{F}$ English	022 Comments
Thermal Conductivity	0.190 W/m-K	1.32 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	
UL RTI, Electrical	65.6 °C	150 °F	File E54153
UL RTI, Mechanical without Impact	65.6 °C	150 °F	File E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 41.42 kV/mm	>= 1052 kV/in	Arlon SQA-TMS-020

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	
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Color	Translucent	
Total Product Weight (oz/yd ²)	15.6	Arlon SQA-TMS-025

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China