

Arlon 25188T010 Silicone Rubber/Laminated ETFE Film

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Liner: 3 mil PTFE coated fiberglass; Side 1: uncured silicone rubber; Substrate: laminated ETFE film, treated for adhesion

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-25188T010-Silicone-RubberLaminated-ETFE-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	silicone property; Arlon SQA-TMS-024
	1.70 g/cc	1.70 g/cc	ETFE film property; ASTM D792
Thickness	50.8 microns	2.00 mil	ETFE film; Arlon SQA-TMS-003
	203 microns	8.00 mil	silicone; Arlon SQA-TMS-003
	254 microns	10.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	silicone property; ASTM D2240
Hardness, Shore D	67	67	ETFE film property; ASTM D2240
Tensile Strength, Ultimate	6.89 MPa	1000 psi	silicone property; ASTM D412
	41.4 MPa	6000 psi	ETFE film property; ASTM D638
Elongation at Break	300 %	300 %	ETFE film property; ASTM D638
	950 %	950 %	silicone property; ASTM D412
Modulus of Elasticity	0.000517 GPa	0.0750 ksi	Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	silicone property
Adhesive Bond Strength	>= 0.0689 MPa	>= 10.0 psi	Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
CTE, linear	335 $\mu\text{m/m-}^\circ\text{C}$	186 $\mu\text{in/in-}^\circ\text{F}$	Silicone Property; ASTM E 831
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² - $^\circ\text{F}$	silicone property; Arlon SQA-TMS-022
Maximum Service Temperature, Air	154 $^\circ\text{C}$	310 $^\circ\text{F}$	
Minimum Service Temperature, Air			

Thermal Properties	-51.1 °C Metric	-60.0 °F English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Strength	49.2 kV/mm	1250 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	
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Appearance	Translucent	

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