

Arlon IsoClad 933 Non-Woven Fiberglass Reinforced PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Traditional - Highest Performance, PTFE Coated Light Woven Glass Styles, Interdispersed PTFE Film
Information provided by Arlon Materials for Electronics (MED).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-IsoClad-933-Non-Woven-Fiberglass-Reinforced-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.27 g/cc	0.0820 lb/in ³	
Water Absorption	0.050 %	0.050 %	
Outgassing - Total Mass Loss	0.00 %	0.00 %	Collected Volatile
	0.030 %	0.030 %	Total Mass Loss

Mechanical Properties	Metric	English	Comments
Peel Strength	1.75 kN/m	10.0 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	x direction
	35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	y direction
CTE, linear, Transverse to Flow	203 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	113 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	z direction
Thermal Conductivity	0.263 W/m-K	1.83 BTU-in/hr-ft ² -°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.33	2.33	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	2.33	2.33	
	@Thickness 0.127 mm	@Thickness 0.00500 in	
Dissipation Factor	2.33	2.33	
	@Thickness 1.52 mm	@Thickness 0.0600 in	
	0.0016	0.0016	

Electrical Properties	@Frequency 1.00e+10 Metric	@Frequency 1.00e+10 English	Comments
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Descriptive Properties	Value	Comments
Temperature Coefficient of Dielectric (ppm/°C)	-132	

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