Arlon IsoClad 917 Non-Woven Fiberglass Reinforced PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

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

Order this product through the following link:
http://www.lookpolymers.com/polymer_Arlon-IsoClad-917-Non-Woven-Fiberglass-Reinforced-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.23 g/cc	0.0806 lb/in³	
Water Absorption	0.040 %	0.040 %	
Outgassing - Total Mass Loss	0.00 %	0.00 %	Collected Volatile
	0.020 %	0.020 %	Total Mass Loss

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

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	x direction
	47.0 µm/m-°C	26.1 µin/in-°F	y direction
CTE, linear, Transverse to Flow	236 µm/m-°C	131 µin/in-°F	z direction
Thermal Conductivity	0.263 W/m-K	1.83 BTU-in/hr-ft²-°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.17 @Frequency 1.00e+10 Hz	2.17 @Frequency 1.00e+10 Hz	
	2.17 @Thickness 0.127 mm	2.17 @Thickness 0.00500 in	
	2.17 @Thickness 1.57 mm	2.17 @Thickness 0.0620 in	
Dissipation Factor	0.0013	0.0013	

Electrical Properties	Metric @Frequency 1.00e+10 Hz	English @Frequency 1.00e+10 Hz	Comments

Descriptive Properties	Value	Comments
Temperature Coefficient of Dielectric (ppm/°C)	-157	

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