

Arlon AR1000 Glass, PTFE and Micro-Dispersed Ceramic

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Used in the RF and microwave industries. Information provided by Arlon Materials for Electronics (MED).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-AR1000-Glass-PTFE-and-Micro-Dispersed-Ceramic.php

Physical Properties	Metric	English	Comments
Density	2.84 g/cc	0.103 lb/in ³	
Water Absorption	0.080 %	0.080 %	
Outgassing - Total Mass Loss	0.00 %	0.00 %	Collected Volatile
	0.020 %	0.020 %	Total Mass Loss

Mechanical Properties	Metric	English	Comments
Peel Strength	0.877 kN/m	5.00 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	7.78 $\mu\text{in}/\text{in}^{\circ}\text{F}$	x direction
	16.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	8.89 $\mu\text{in}/\text{in}^{\circ}\text{F}$	y direction
CTE, linear, Transverse to Flow	37.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	20.6 $\mu\text{in}/\text{in}^{\circ}\text{F}$	z direction
Thermal Conductivity	0.645 W/m-K	4.48 BTU-in/hr-ft ² -°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	10	10	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	9.7	9.7	
	@Thickness 0.610 mm	@Thickness 0.0240 in	
	9.8	9.8	
	@Thickness 2.36 mm	@Thickness 0.0930 in	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1.00e+10	@Frequency 1.00e+10	

Electrical Properties	Hz Metric	Hz English	Comments
Descriptive Properties			Value Comments
Temperature Coefficient of Dielectric (ppm/°C)			-233

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