

Arlon TC600 Glass, PTFE and Micro-Dispersed Ceramic

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

High Thermal Conductivity, Excellent Dielectric Constant Control and Phase Stability with Temperature Information provided by Arlon Materials for Electronics (MED).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-TC600-Glass-PTFE-and-Micro-Dispersed-Ceramic.php

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in ³	
Water Absorption	0.030 %	0.030 %	
Outgassing - Total Mass Loss	0.00 %	0.00 %	Collected Volatile
	0.020 %	0.020 %	Total Mass Loss

Mechanical Properties	Metric	English	Comments
Peel Strength	1.40 kN/m	8.00 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.00 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	x direction
	9.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.00 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	y direction
CTE, linear, Transverse to Flow	35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	z direction
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft ² -°F	z
	1.40 W/m-K	9.72 BTU-in/hr-ft ² -°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.15	6.15	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	6.15	6.15	
	@Thickness 0.254 mm	@Thickness 0.0100 in	
Dielectric Constant	6.15	6.15	
	@Thickness 6.35 mm	@Thickness 0.250 in	

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

Descriptive Properties	Value	Comments
Temperature Coefficient of Dielectric (ppm/°C)	-75	

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