Arlon AD260A PTFE/Woven Fiberglass/Microdispersed Ceramic Filled Laminate for RF & Microwave PCBs

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

For RF & Microwave Printed Circuit Boards. Low Loss PTFE and Ceramic Filled Composite Dielectric Constant (2.60)Low Dielectric Loss (Loss Tangent)Low Profile Copper (lower conductive losses)Low Z-direction CTELarge Panel Sizes AvailableLow Thermal Coefficient of ErBenefits:Higher Antenna EfficienciesLow Insertion LossMultiple boards per panel (reduced edge trim waste)Large antenna formatsTypical Applications:Base Station Antenna ApplicationsGPS and RFID Reader AntennasDigital Audio Broadcasting (DAB) Antennas (Satellite Radio)Electronic Surveillance, SIGINT and other RF applicationsInformation provided by Arlon Materials for Electronics (MED).

Order this product through the following link:
http://www.lookpolymers.com/polymer_Arlon-AD260A-PTFEWoven-FiberglassMicrodispersed-Ceramic-Filled-Laminate-for-RF-Microwave-PCBs.php

Physical Properties	Metric	English	Comments
Density	2.30 g/cc	0.0831 lb/in³	ASTM D792 Method A
Water Absorption	0.040 %	0.040 %	IPC TM-650 2.6.2.2

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 138 MPa	>= 20000 psi	IPC TM-650 2.4.18
Modulus of Elasticity	>= 4.83 GPa	>= 700 ksi	ASTM D638
Flexural Modulus	>= 3.72 GPa	>= 540 ksi	ASTM D790
Compressive Modulus	>= 2.41 GPa	>= 350 ksi	ASTM D695
Peel Strength	2.98 kN/m	17.0 pli	To Copper (1 oz.); A, TS; IPC TM-650 2.4.8

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 µm/m-°C @Temperature 0.000 - 100 °C	8.89 µin/in-°F @Temperature 32.0 - 212 °F	IPC TM-650 2.4.24
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature 0.000 - 100 °C	44.4 µin/in-°F @Temperature 32.0 - 212 °F	z direction; IPC TM-650 2.4.24
Thermal Conductivity	0.320 W/m-K @Temperature 100 °C	2.22 BTU-in/hr-ft²-°F @Temperature 212 °F	ASTM E1225
Flammability, UL94	V-0	V-0	Vertical Burn

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.10e+15 ohm-cm	1.10e+15 ohm-cm	C96/35/90; IPC TM-650 2.5.17.1
Surface Resistance	4.50e+13 ohm	4.50e+13 ohm	C96/35/90; IPC TM-650 2.5.17.1
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	C23/50; IPC TM-650 2.5.5.3
	2.6 @Frequency 1.00e+10 Hz	2.6 @Frequency 1.00e+10 Hz	C23/50; IPC TM-650 2.5.5.5
	2.6 @Frequency 2.00e+8 Hz	2.6 @Frequency 2.00e+8 Hz	C23/50; IPC TM-650 2.5.5.6
Dielectric Breakdown	>= 45000 V	>= 45000 V	D48/50; ASTM D149
Dissipation Factor	0.00135 @Frequency 1.00e+6 Hz	0.00135 @Frequency 1.00e+6 Hz	Loss Tangent, C23/50; IPC TM-650 2.5.5.3
	0.0017 @Frequency 1.00e+10 Hz	0.0017 @Frequency 1.00e+10 Hz	Loss Tangent, C23/50; IPC TM-650 2.5.5.6
Arc Resistance	>= 180 sec	>= 180 sec	D48/50; ASTM D495

Descriptive Properties	Value	Comments
Temperature Coefficient of Dielectric (ppm/°C)	-80	IPC TM-650 2.5.5.5 (-10 - 140°C)

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