

ZYF-D series PTFE laminate

ZYF-D series are high-quality composite material made of Tefion ,it is made of electric grade fiber glass cloth, specifically designed for Printed Circuit It can provide the lowest dielectric constant and loss, good performance of electrcal properties ,its Dk/Df is relatively stable at different temperature and frequencies.

Product Feature	Typical Applications
● Extremely low loss,low tolerances and excellent high frequency performance	● Military radar, missile guidance systems
● Reasonable commercial cost structure	● Low loss base station antenna
● Lower the dielectric constant of a wide	● Filters, couplers, low noise amplifier
● Excellent machining performance	● Digital broadcasting antenna
● Maintaining the stability of PTFE at different frequencies	
● Fast bulk delivery	
● Electrical performance	

ZYF-D Typical Properties

- Product Name: ZYF-D High Frequency CCL
- Resin System : PTFE
- Reinforcement Material : Electronic Poles Glass Fiber Cloth
- Filling The Material : No
- Test Model : IPC-4103

Product	Product Structure	Permittivity DK @10 GHz	Loss Tangent Df @ 10 GHz	Tc DK ppm/°C	Thermal Conductivity W/(m.K)	Volume Resistance MΩ.cm	Surface Resistance MΩ.cm	Water Absorption (%)	CTE(0- 100°C) (ppm/°C)			Peel Strength (N/mm)	Density g/cm³	Flammability UL 94	PIM dBc
									X	Y	Z				
ZYF220DB	PTFE; Glass fibre cloth	2.14±0.02	0.0007	-160	0.26	1.2×10 ⁹	2.9×10 ⁸	0.02	22	33	255	2.45	2.23	UL94-V0	-162
ZYF220D	PTFE; Glass fibre cloth	2.20±0.02	0.0009	-160	0.26	1.2×10 ⁹	2.9×10 ⁸	0.02	22	23	233	2.45	2.23	UL94-V0	-162
ZYF250D	PTFE; Glass fibre cloth	2.50±0.04	0.0017	-115	0.25	1.3×10 ⁹	4.5×10 ⁸	0.03	13	18	125	2.45	2.41	UL94-V0	-163
ZYF255DA	PTFE; Glass fibre cloth	2.55±0.04	0.0018	-115	0.25	1.3×10 ⁹	4.5×10 ⁸	0.03	13	18	125	2.45	2.41	UL94-V0	-163
ZYF260D	PTFE; Glass fibre cloth	2.60±0.04	0.0018	-110	0.25	1.3×10 ⁹	4.5×10 ⁸	0.05	12	14	80	2.45	2.41	UL94-V0	-163
ZYF265D	PTFE; Glass fibre cloth	2.65±0.04	0.0019	-110	0.25	1.3×10 ⁹	4.5×10 ⁸	0.05	12	14	80	2.45	2.41	UL94-V0	-163

Remark

1.The above results were tested based on 30mil thickness material;

2.The typical value is based on a large number of tests and should be the average of the overall performance;

3.All the typical values listed above are for your reference only and not intended for specification.

ZYF-D Product Specification

Standard Thcickness		Standard Sheet Size		Copper Foil	
mm	Inch	mm	Inch	(oz) Thickness	Type
0.13	0.005	927×1232 1029×1232 1080×1232 1854×1232 2057×1232 2159×1232	36.5"×48.5" 40.5"×48.5" 42.5"×48.5" 73"×48.5" 81"×48.5" 85"×48.5"	H/H 1/1 2/2	RTF VLP
0.254	0.01				
0.381	0.015				
0.508	0.02				
0.762	0.03				
0.94	0.037				
1.016	0.4				
1.524	0.6				
3.17	0.125				