

ForTii® LDS51B

PPA-GF30 FR(40)

30% Glass Reinforced, PA4T, Halogen free and free of red phosphorous, Certified V-0 at 0.4mm, Laser Direct Structuring (LDS)

Print Date: 2019-09-27

ForTii® LDS51B is a truly reflow compatible and halogen-free flame retardancy grade. LDS51B has superior plating performance and is compatible with a broad range of laser settings enabling high resolution and fine line capability.

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	11000 / 11000	MPa	ISO 527-1/-2
Stress at break	120 / 120	MPa	ISO 527-1/-2
Strain at break	1.6 / 1.6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	25 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	325 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ASTM D696
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-

Property Data

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Properties	Typical Data	Unit	Test Method
Electrical properties			
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 60093
Comparative tracking index	400 / -	V	IEC 60112
Relative permittivity (1GHz)	4.13 / 4.23	-	IEC 60250
Other properties			
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1580 / -	kg/m ³	ISO 1183