

ForTii® LDS85B

PPA-GF30

30% Glass Reinforced, PA4T, Laser Direct Structuring (LDS)

Print Date: 2019-08-09

ForTii® LDS85B enables mechanical function integration with high impact resistance and ductility. LDS85B has very good plating performance.

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.33 / *	%	ISO 294-4
Molding shrinkage (normal)	1.3 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	10000 / -	MPa	ISO 527-1/-2
Stress at break	125 / -	MPa	ISO 527-1/-2
Strain at break	2.2 / -	%	ISO 527-1/-2
Flexural modulus	8400 / -	MPa	ISO 178
Flexural strength	190 / -	MPa	ISO 178
Charpy impact strength (+23°C)	27 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / -	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)	285 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.18 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-

Property Data

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Properties	Typical Data	Unit	Test Method
Electrical properties	dry / cond		
Relative permittivity (1GHz)	3.78 / 3.85	-	IEC 60250
Other properties	dry / cond		
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1510 / -	kg/m ³	ISO 1183