

Product Texts

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

ISO 1043 PPA-GF30

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

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10000 / 10000	MPa	ISO 527
^[C] Stress at break	125 / 105	MPa	ISO 527
^[C] Strain at break	2.1 / 2.1	%	ISO 527
^[C] Charpy impact strength, +23°C	35 / 35	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	4 / 3.6	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	325 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	125 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	285 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	315 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	18 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	3.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.4 / *	%	Sim. to ISO 62
^[C] Density	1510 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Regional Availability

Asia Pacific

Delivery form

Pellets

Other text information**Injection molding**[Injection Molding Recommendations](#)[Hot runner recommendations for molding high heat performance Engineering Materials](#)

[Steel recommendations for molds screws and barrels](#)
[Trouble shooting guideline for injection molding](#)