

ForTii[®] LDS85B

PPA–GF30

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

Print Date: 2024–03–27

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 / 10000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	5600 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	3000	MPa	ISO 527–1/–2
Stress at break	125 / 105	MPa	ISO 527–1/–2
Stress at break (120°C)	64 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	45	MPa	ISO 527–1/–2
Strain at break	2.1 / 2.1	%	ISO 527–1/–2
Strain at break (120°C)	4 / –	%	ISO 527–1/–2
Strain at break (160°C)	6	%	ISO 527–1/–2
Flexural modulus	9400 / 9600	MPa	ISO 178
Flexural strength	185 / 165	MPa	ISO 178
Flexural modulus (120°C)	5400	MPa	ISO 178
Flexural modulus (160°C)	3100	MPa	ISO 178
Charpy impact strength (+23°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 3.6	kJ/m ²	ISO 179/1eA

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
THERMAL PROPERTIES			
<i>DRY / COND</i>			
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 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	–	–
ELECTRICAL PROPERTIES			
<i>DRY / COND</i>			
Relative permittivity (1GHz)	3.78 / 3.85	–	IEC 61189-2-721
OTHER PROPERTIES			
<i>DRY / COND</i>			
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1510 / –	kg/m ³	ISO 1183

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