Property Data

Envalior
Imagine the Future

ForTii® Eco LDS62B

PA*–GF35

35% Glass Reinforced, Laser Direct Structuring (LDS), Low Warpage

Print Date: 2024–09–17

ForTii® Eco LDS62B is a high ductility LDS material which enables good structural integrity in complicated geometries. It is well suited for wearable devices and smart phone antennas for consumer electronics. It has excellent dimensional stability to ensure low warpage after chemical plating. Eco LDS62B is Eco–friendly due to its partly bio–based content.

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.21 / *	%	ISO 294–4
Molding shrinkage (normal)	0.7 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	11500 / –	MPa	ISO 527–1/–2
Stress at break	130 / –	MPa	ISO 527–1/–2
Strain at break	1.7 / –	%	ISO 527–1/–2
Flexural modulus	10000 / –	MPa	ISO 178
Flexural strength	190 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	4.6 / –	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	319 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.17 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.66 / *	E–4/°C	ISO 11359–1/–2

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Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
UL recognition	Yes / *	–	–
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	DRY / COND		
Relative permittivity (1GHz)	3.74 / 3.8	–	IEC 61189–2–721

OTHER PROPERTIES	DRY / COND		
Density	1500 / –	kg/m³	ISO 1183