

performanceplastics

2500 L G2 Nat (PC 10%GF + UV)

PROPERTIES

Mechanical Properties

	Condition	Standard	Unit	Value
Izod notched impact	23°C	ASTM D256	J/m	150
Tensile E-Modulus	1 mm/min	ISO 527-1,2	MPa	3800
Flexural modulus	1 mm/min	ISO 178	MPa	3600
Elongation at break	50 mm/min	ISO 527-1,2	%	6
Flexural break strength	1 mm/min	ISO 178	MPa	100
Tensile break strength	50 mm/min	ISO 527-1,2	MPa	75
Flexural max strength	1 mm/min	ISO 178	MPa	105
Charpy notched impact (23°C)		ISO 179/1eA	KJ/m ²	10
Charpy unnotched impact (23°)		ISO 179/1eU	KJ/m ²	45

Thermal Properties

Softening point - 1Kg (VST/A/50)	50°C/h	ISO 306	°C	153
Heat deflection temperature HDT, 1.8 Mpa	120°C/h	ISO 75A	°C	142
Ball pressure test		IEC 60695-10-2	°C	125
Continuous service temperature	20,000h	IEC 60216	°C	130
Coefficient of linear thermal expa	-30°C/+30°C	ISO 11359-1,-2	K ⁻¹	3,5x10exp(-5)

Electrical Properties

Dielectric strength	2mm	IEC 60243-1	kV/mm	22
Comparative tracking index	CTI -Method A	IEC 60112	Volt	150
Volume resistivity		IEC 60093	Ω . M	>10exp(16)
Specific surface resistivity		IEC 60093	Ω	-

Flammability

Oxygen index		ASTM D2863	%	30
Flame behaviour	3.2mm	UL94	Class	V1
Flame behaviour	1.6mm	UL94	Class	V2
Glow wire flammability index (GW)	2mm	IEC 60695-2-12	°C	850

General Properties

Density		ISO 1183	g/cm ³	1.24-1.26
Melt flow rate	300°C-1.2Kg	ISO 1133	g/10 min	12
Reinforcing charges	850°C - 1h	ISO 3451	%	10
Water absorption	24h/23°C	ISO 62	%	0.08
Water absorption at saturation		ISO 62	%	0.3
Mould Shrinkage	Parallel	Internal	%	0.3-0.5

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products.

Prospective users should determine the suitability of materials before adopting them on a commercial scale.

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