

performanceplastics

PC-LED-FF

High Diffusion Polycarbonate for LED

PROPERTIES

Mechanical Properties

		Standard	Unit	PC-LED-FF
Tensile Modulus	1 mm/min	ISO 527	MPa	2400
Tensile strength at yield	50 mm/min	ISO 527	MPa	61
Elongation at yield	50 mm/min	ISO 527	%	5.6
Elongation at break	50 mm/min	ISO 527	%	113
Impact Strength	Charpy 23°C	ISO 179/1-1eU	kJ/m ²	No Break
Notched impact strength	Charpy 23°C	ISO 179/1-1eA	kJ/m ²	76

Thermal Properties

Melt Volume Flow Rate	300C, 1.2kg	ISO 1133	cm ³ / 10 min	11-17
Heat deflection temperature HDT/ 1.8 MPa		ISO 75	°C	129
Heat deflection temperature HDT/8.0 MPa		ISO 75	°C	143

Optical Properties

Haze	Rapra	2-3mm	%	100
Total Light transmission	Rapra	1.5mm	%	76
Total Light transmission	Rapra	2 mm	%	64

General Properties

Density		ISO 1183	g/cm ³	1.2
Flammability (UL94)	0.8mm	ISO 1210	-	v2
Water absorption	23°C/sat	ISO 62	%	0.24
Glow Wire Temp	GWFI		°C	960
Glow Wire Temp	GWIT		°C	875
Linear mould shrinkage	long.	ISO 294	%	0.60
Linear mould shrinkage	trans.	ISO 294	%	0.6

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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