

Xantar[®] RC 3730

Property Data (Provisional)

PC FR...

Laser Direct Structuring (LDS), Flame Retardant (Halogen free), Black color only

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	8	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (parallel)	0.6	%	ISO 294-4
MECHANICAL PROPERTIES			
Tensile modulus	2200	MPa	ISO 527-1/-2
Yield stress	55	MPa	ISO 527-1/-2
Yield strain	5	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Flexural modulus	2300	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N	kJ/m ²	ISO 179/1eU
Izod notched impact strength (23°C)	60	kJ/m ²	ISO 180/4A
Izod notched impact strength (-20°C)	40	kJ/m ²	ISO 180/4A
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	125	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	145	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	0.7	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES			
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
OTHER PROPERTIES			
Water absorption	0.6	%	Sim. to ISO 62
Density	1270	kg/m ³	ISO 1183

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