


XANTAR® LDS 3730

PC FR...

Mitsubishi Engineering-Plastics Corporation

Product Texts

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

ISO 1043 PC FR...

[XANTAR® Polycarbonate & Blends, your global partner for innovative added value](#)

**The compound is intended specifically for the use in the process of manufacturing conducting path designs according to the German application of the patent 101 32 092 of LPKF Laser & Electronics AG (Osteriede 7 30827 Garbsen Germany). Please address straight to LPKF Laser & Electronics AG (www.LPKF.de). ;*

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	2200	MPa	ISO 527-1/-2
Yield stress	52	MPa	ISO 527-1/-2
Yield strain	5	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	55	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	30	kJ/m²	ISO 179/1eA
Puncture energy, +23°C	35	J	ISO 6603-2
Thermal properties			
ISO Data			
Temp. of deflection under load (1.80 MPa)	122	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	145	°C	ISO 306
Coeff. of linear therm. expansion, parallel	65	E-6/K	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
UL recognition	UL	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	3.0	mm	IEC 60695-11-20
UL recognition	UL	-	-
Electrical properties			
ISO Data			
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Other properties			
ISO Data			
Water absorption	0.35	%	Sim. to ISO 62
Density	1260	kg/m³	ISO 1183

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Test specimen production**Value****Unit****Test Standard****ISO Data**

Injection Molding, melt temperature

300

°C

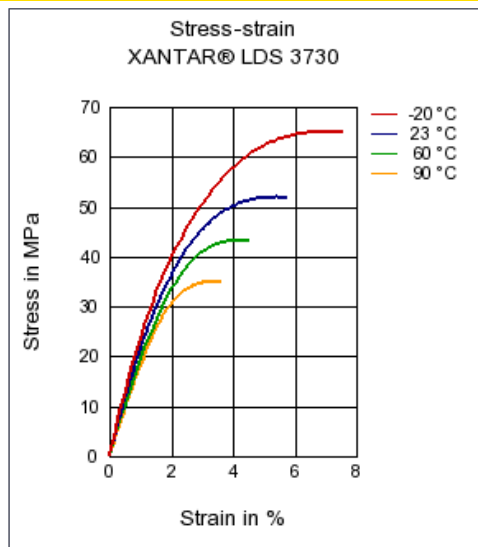
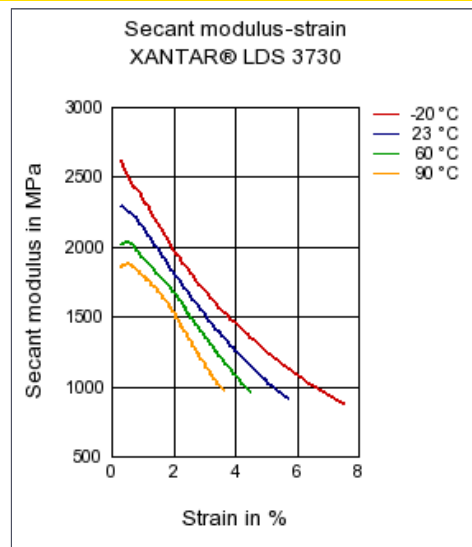
ISO 294

Injection Molding, mold temperature

100

°C

ISO 10724

Diagrams**Stress-strain****Secant modulus-strain****Characteristics****Processing**

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

Flame retardant, Platable

Other text information**Injection Molding**[Injection Molding Recommendations](#)