

XANTAR® LDS 3730

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

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

*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. Please address straight to LPKF Laser & Electronics AG (www.LPKF.de).

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.60	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	52.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	30	kJ/m ²	
23°C	55	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/4A
-20°C	40	kJ/m ²	
23°C	60	kJ/m ²	
Multi-Axial Instrumented Impact Energy			
-20°C ¹	25.0	J	Internal Method

23°C	35.0	J	ISO 6603-2
23°C ²	25.0	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	122	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/B50
CLTE - Flow	6.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Relative Permittivity (1.00 GHz)	3.00		IEC 60250
Dissipation Factor (1.00 GHz)	5.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	V-0		
3.00 mm	5VB		
0.500 mm	HB		
NOTE			
1.	Part with rib, Based on ISO 6603-2		
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