

XANTAR® LDS 3750

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

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

*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		
	Low Viscosity		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	14.0	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	2300	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/4A
-20°C	10	kJ/m ²	
23°C	60	kJ/m ²	
Multi-Axial Instrumented Impact Energy			
-20°C ¹	10.0	J	Internal Method
23°C	40.0	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)	126	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/B50

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)	2.80		IEC 60250
Dissipation Factor (1.00 GHz)	5.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.750 mm)	V-0		IEC 60695-11-10, -20
NOTE			
1.	Part with rib, Based on ISO 6603-2		
2.	Part with rib, Based on ISO 6603-2		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT