


XANTAR® LDS 3760

PC FR(40)...

Mitsubishi Engineering-Plastics Corporation

Product Texts

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

ISO 1043 PC FR(40)...

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**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	28	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	2500	MPa	ISO 527-1/-2
Yield stress	58	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
Puncture energy, +23°C	40	J	ISO 6603-2
Thermal properties			
ISO Data			
Temp. of deflection under load (1.80 MPa)	103	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	105	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	110	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.6	mm	IEC 60695-11-10
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
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1270	kg/m³	ISO 1183
Test specimen production			
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	90	°C	ISO 10724

XANTAR® LDS 3760 PC FR(40)...		Mitsubishi Engineering-Plastics Corporation
Characteristics		
Processing		Additives
Injection Molding		Release agent
Delivery form		Special Characteristics
Pellets		Flame retardant
Other text information		
Injection Molding		
Injection Molding Recommendations		