

# XANTAR<sup>®</sup> LDS 3710

## Property Data

(PC+ABS)...  
Vicat 120°C, 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 (Osteriede 7 30827 Garbsen Germany). Please address straight to LPKF Laser & Electronics AG (www.LPKF.de).*

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
Melt volume-flow rate	13.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	500	°F	ISO 1133
Load	11	lb	ISO 1133
Molding shrinkage (parallel)	0.6	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
Tensile modulus	3.19E5	psi	ISO 527-1/-2
Yield stress	7250	psi	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Flexural modulus	3.26E5	psi	ISO 178
Flexural strength	11600	psi	ISO 178
Charpy impact strength (+23°C)	N	ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	N	ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	33.3	ftlb/in <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	28.5	ftlb/in <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (23°C)	28.5	ftlb/in <sup>2</sup>	ISO 180/4A
Izod notched impact strength (-20°C)	19	ftlb/in <sup>2</sup>	ISO 180/4A
Puncture energy (+23°C)	310	in-lb	ISO 6603-2
Puncture energy, part with rib (+23°C)	88.5	in-lb	DSM (ISO 6603-2 based)
Puncture energy, part with rib (-20°C)	35.4	in-lb	DSM (ISO 6603-2 based)
<b>THERMAL PROPERTIES</b>			
Temp. of deflection under load (1.80 MPa)	216	°F	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	252	°F	ISO 306
Coeff. of linear therm. expansion (parallel)	0.389	E-4/°F	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.389	E-4/°F	ISO 11359-1/-2
<b>ELECTRICAL PROPERTIES</b>			
Relative permittivity (1GHz)	2.8	-	IEC 60250
Dissipation factor (1GHz)	88	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
<b>OTHER PROPERTIES</b>			
Water absorption	0.6	%	Sim. to ISO 62
Density	74.3	lb/ft <sup>3</sup>	ISO 1183

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