DuPont™ Zenite® LCP

liquid crystal polymer resin

PRELIMINARY DATA

Zenite® 6130LX BK010

30% Glass Reinforced LCP Resin

Zenite® 6130LX is a 30% glass reinforced LCP resin. It is well suited for use in the automotive, electrical/electronic, telecommunications and aerospace industries.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043-1/-2/-3/-4		LCP-GF30
Part Marking Code	ISO 11469		>LCP-GF30<
Mechanical			
Stress at Break	ISO 527-1/-2	MPa (kpsi)	146 (21.2)
Tensile Strength	ASTM D 638	MPa (kpsi)	151 (21.9)
Strain at Break	ISO 527-1/-2	%	2.1
Tensile Modulus	ISO 527-1/-2	MPa (kpsi)	14860 (2159)
Flexural Modulus	ASTM D 790	MPa (kpsi)	14500 (2106.6)
Flexural Modulus	ISO 178	MPa (kpsi)	12440 (1807)
Flexural Strength	ASTM D 790	MPa (kpsi)	197 (28.6)
Flexural Strength	ISO 178	MPa (kpsi)	224 (32.5)
Izod Impact	ASTM D 256	kJ/m^2	107
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	18.5

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

During molding, use protective equipment and clothing. Skin contact with molten Zenite ® resins can cause severe burns. Be particularly alert during purging.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Zenite® 6130LX BK010

Property	Test Method	Units	Value
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
1.80MPa			280 (536)
Heat Deflection Temperature	ASTM D 648	°C (°F)	
1.8MPa (264psi)			274 (525)
Flammability			
Flammability Classification	IEC 60695-11-10		
0.75mm			V-0
Flammability Classification	UL94		
0.75mm			V-0
Other			
Specific Gravity	ASTM D 792		1.66
Density	ISO 1183	kg/m^3 (g/cm^3)	1660 (1.66)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.60
Parallel, 2.0mm			0.12
Processing			
Melt Temperature Range		°C (°F)	350-370 (662-698)
Mold Temperature Range		°C (°F)	30-95 (86-203)

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