Zenite® 6140L

Liquid Crystal Polymer

Celanese Corporation

Message:

Zenite® 6140L is a 40% glass fiber reinforced and lubricated liquid crystal polymer for injection molding. It has excellent impact resistance and excellent heat deflection temperature.

General Information			
UL YellowCard	E344082-100831266		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Lubricant		
Features	Good Impact Resistance Lubricated		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.71	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50	%	
Flow	0.050	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	17000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.1	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	16500	MPa	ISO 178
Flexural Stress (23°C)	190	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	15	kJ/m²	
23°C	15	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	20	kJ/m²	
23°C	23	kJ/m²	
Notched Izod Impact Strength (23°C)	12	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	280	°C	ISO 75-2/A
Melting Temperature [1]	335	°C	ISO 11357-3
CLTE			ISO 11359-2

Flow	4.0E-6	cm/cm/°C	
Transverse	6.4E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	45	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.400 mm	V-0		
1.50 mm	V-0		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.010	%	
Processing (Melt) Temp	350 to 360	°C	
Mold Temperature	40.0 to 150	°C	
NOTE			
1.	10°C/min		

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