

Zenite® 6140L

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

	General In	formation		
Product Description				
Zenite® 6140L is a 40% glass fibe excellent heat deflection temperate	er reinforced and lubricated liquid crystal ure.	polymer for injection moldir	ng. It has exc	cellent impact resistance and
General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	Europe Latin America		
Filler / Reinforcement	Glass Fiber, 40% Filler by Weight			
Additive	Lubricant			
Features	Good Impact Resistance	 Lubricated 		
RoHS Compliance	 Contact Manufacturer 			
Processing Method	Injection Molding			
	ASTM & ISO	Properties ¹		
Physical		Nominal Value	Unit	Test Method
Density		1.71	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow		0.50	%	
Flow		0.10	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		2.47E+6	psi	ISO 527-2/1A
Tensile Stress (Break)		18900	psi	ISO 527-2/1A/5
Tensile Strain (Break)		1.1	%	ISO 527-2/1A/5
Flexural Modulus (73°F)		2.39E+6	psi	ISO 178

Flexural Modulus (73°F)			
	2.39E+6	psi	ISO 178
Flexural Stress (73°F)	27600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	7.1	ft·lb/in²	
73°F	7.1	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	9.5	ft·lb/in²	
73°F	11	ft·lb/in²	
Notched Izod Impact Strength (73°F)	5.7	ft·lb/in²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	536	°F	ISO 75-2/A
Melting Temperature ²	635	°F	ISO 11357-3
CLTE - Flow	2.2E-6	in/in/°F	ISO 11359-2
CLTE - Transverse	3.6E-5	in/in/°F	ISO 11359-2
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	1100	V/mil	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.016 in	V-0	
0.06 in	V-0	

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	302	°F		
Drying Time	3.0	hr		
Suggested Max Moisture	0.010	%		
Processing (Melt) Temp	662 to 680	°F		
Mold Temperature	104 to 302	°F		

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min