

Generic LCP

Liquid Crystal Polymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.38 - 2.70	g/cm ³	ASTM D792
23°C	1.40 - 1.51	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.010 - 0.40	%	ASTM D955
23°C	-0.020 - 0.82	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	10000 - 37900	MPa	ASTM D638
23°C	7000 - 24300	MPa	ISO 527-2
Tensile Stress			
Fracture, 23°C	110 - 182	MPa	ISO 527-2
23°C	44.8 - 100	MPa	ASTM D638
Tensile Elongation			
Fracture, 23°C	0.40 - 5.8	%	ASTM D638
Fracture, 23°C	1.4 - 6.2	%	ISO 527-2
Flexural Modulus			
23°C	7580 - 19300	MPa	ASTM D790
23°C	6800 - 12500	MPa	ISO 178
Flexural Strength			
23°C	68.6 - 159	MPa	ASTM D790
23°C	84.0 - 190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 - 95	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	3.7 - 270	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	20 - 86	J/m	ASTM D256
23°C	4.0 - 95	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	59 - 1200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

1.8 MPa, not annealed	232 - 293	°C	ASTM D648
1.8 MPa, not annealed	165 - 315	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	10 - 4.0E+14	ohms·cm	ASTM D257
Relative Permittivity (23°C)	4.39		IEC 60250
Dissipation Factor (23°C)	1.0E-3 - 0.035		IEC 60250
Injection	Nominal Value	Unit	
Drying Temperature	149 - 151	°C	
Drying Time	3.0 - 8.2	hr	
Dew Point	-29.2 - -28.9	°C	
Hopper Temperature	25.0 - 32.1	°C	
Rear Temperature	271 - 347	°C	
Middle Temperature	278 - 355	°C	
Front Temperature	283 - 364	°C	
Nozzle Temperature	292 - 370	°C	
Processing (Melt) Temp	287 - 373	°C	
Mold Temperature	78.2 - 137	°C	
Injection Pressure	98.4 - 121	MPa	
Holding Pressure	97.6 - 100	MPa	
Back Pressure	0.175 - 1.56	MPa	
Injection instructions			

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