

Generic LCP - Glass\Mineral

Liquid Crystal Polymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass \Mineral		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.66 - 1.68	g/cm ³	ASTM D792
23°C	1.65 - 1.77	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.010 - 0.20	%	ASTM D955
23°C	0.0 - 0.51	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11900 - 14200	MPa	ISO 527-2
Tensile Stress			
Fracture, 23°C	110 - 131	MPa	ISO 527-2
23°C	110 - 142	MPa	ASTM D638
Tensile Elongation			
Fracture, 23°C	1.5 - 1.6	%	ASTM D638
Fracture, 23°C	1.0 - 3.0	%	ISO 527-2
Flexural Modulus			
23°C	11500 - 13000	MPa	ASTM D790
23°C	10600 - 14100	MPa	ISO 178
Flexural Strength			
23°C	130 - 181	MPa	ASTM D790
23°C	130 - 180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.6 - 20	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	270 - 335	°C	ISO 75-2/B
1.8 MPa, not annealed	230 - 270	°C	ASTM D648
1.8 MPa, not annealed	235 - 261	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	6.0E-6 - 9.2E-6	cm/cm/°C	ISO 11359-2
Lateral	4.3E-5 - 4.4E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15 - 2.1E+16	ohms·cm	IEC 60093
Dielectric Strength (23°C)	21 - 48	kV/mm	IEC 60243-1
Dielectric Constant (23°C)	3.70 - 4.35		IEC 60250
Dissipation Factor (23°C)	9.7E-3 - 0.030		IEC 60250
Arc Resistance	181 - 183	sec	ASTM D495
Comparative Tracking Index	150 - 200	V	IEC 60112

Injection	Nominal Value	Unit
Drying Temperature	150 - 160	°C
Drying Time	3.0 - 6.1	hr
Rear Temperature	320 - 360	°C
Middle Temperature	325 - 365	°C
Front Temperature	340 - 365	°C
Nozzle Temperature	335 - 365	°C
Processing (Melt) Temp	335 - 366	°C
Mold Temperature	95.0 - 105	°C

Injection instructions

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