

Generic LCP - Carbon Fiber

Liquid Crystal Polymer

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic LCP - Carbon Fiber
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45 - 1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.010 - 0.10	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	15500 - 34500	MPa	ASTM D638
Tensile Strength (23°C)	116 - 202	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	0.50 - 3.5	%	ASTM D638
Fracture, 23°C	0.50 - 5.5	%	ASTM D638
Flexural Modulus (23°C)	11700 - 27600	MPa	ASTM D790
Flexural Strength (23°C)	170 - 290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	41 - 100	J/m	ASTM D256
Unnotched Izod Impact (23°C)	210 - 650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	228 - 318	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	10 - 1.0E+5	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	3.9 - 8.0	hr	
Processing (Melt) Temp	286 - 381	°C	
Mold Temperature	65.6 - 94.0	°C	
Injection Pressure	58.6 - 121	MPa	
Injection instructions			

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