

Generic LCP - Glass Fiber, Long

Liquid Crystal Polymer

Generic

Message:

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

General Information			
Filler / Reinforcement	Long glass fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60 - 1.68	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	0.020 - 0.66	%	ASTM D955
Transverse flow: 23°C	0.38 - 1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	89 - 107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	82.0 - 182	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.5 - 5.0	%	ASTM D638
Flexural Modulus (23°C)	5600 - 14200	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	85.0 - 158	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	200 - 480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	267 - 355	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	2.0E-6 - 2.4E-6	cm/cm/°C	ASTM D696
Lateral	7.2E-5 - 8.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15 - 1.2E+15	ohms · cm	ASTM D257
Dielectric Constant (23°C)	3.09 - 4.70		ASTM D150
Dissipation Factor (23°C)	3.9E-3 - 0.027		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	130 - 135	°C	
Drying Time	3.0 - 14	hr	
Rear Temperature	299 - 360	°C	
Middle Temperature	329 - 380	°C	
Front Temperature	349 - 400	°C	
Nozzle Temperature	349 - 400	°C	
Processing (Melt) Temp	348 - 400	°C	

Injection Pressure	117 - 140	MPa
Holding Pressure	29.5 - 50.0	MPa
Back Pressure	2.94 - 3.00	MPa

Injection instructions

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

