

Generic PC - Stainless Steel Fiber

Polycarbonate

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Stainless steel fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23 - 1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.20 - 0.67	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 - 0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2410 - 9150	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	51.7 - 75.0	MPa	ASTM D638
23°C	58.4 - 97.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	2.0 - 10	%	ASTM D638
Fracture, 23°C	2.0 - 10	%	ASTM D638
Flexural Modulus (23°C)	2380 - 5920	MPa	ASTM D790
Flexural Strength (23°C)	62.1 - 146	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	47 - 110	J/m	ASTM D256
Unnotched Izod Impact (23°C)	410 - 1400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	137 - 152	°C	ASTM D648
1.8 MPa, not annealed	126 - 141	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	25 - 2.5E+8	ohms	ASTM D257
Volume Resistivity (23°C)	0.0 - 2.5E+8	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 122	°C	
Drying Time	3.0 - 4.1	hr	
Suggested Max Moisture	0.020 - 0.10	%	
Rear Temperature	279 - 316	°C	
Middle Temperature	279 - 324	°C	
Front Temperature	279 - 327	°C	

Processing (Melt) Temp	291 - 316	°C
Mold Temperature	79.4 - 96.1	°C
Injection Pressure	85.9 - 121	MPa
Back Pressure	0.258 - 0.349	MPa

Injection instructions

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