

Generic ABS+PC - Stainless Steel Fiber

Polycarbonate + ABS

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			
--	1.21 - 1.40	g/cm ³	ASTM D792
23°C	1.21 - 1.34	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.29 - 0.61	%	ASTM D955
23°C	0.30 - 0.55	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2620 - 3460	MPa	ASTM D638
Tensile Strength (23°C)	58.2 - 63.3	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	1.5 - 7.9	%	ASTM D638
Fracture, 23°C	4.6 - 6.5	%	ASTM D638
Fracture, 23°C	5.9 - 6.1	%	ISO 527-2
Flexural Modulus (23°C)	2560 - 3650	MPa	ASTM D790
Flexural Strength			
23°C	87.6 - 122	MPa	ASTM D790
23°C	75.0 - 86.3	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43 - 84	J/m	ASTM D256
23°C	5.0 - 9.6	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	210 - 1100	J/m	ASTM D256
23°C	31 - 32	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	95.4 - 110	°C	ASTM D648
1.8 MPa, not annealed	90.0 - 104	°C	ISO 75-2/A
CLTE - Flow	5.8E-5 - 6.0E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 - 1.0E+6	ohms	ASTM D257
Volume Resistivity (23°C)	5.5 - 1.3E+7	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 93.3	°C	
Drying Time	4.0	hr	
Rear Temperature	227 - 280	°C	
Middle Temperature	238 - 280	°C	
Front Temperature	249 - 283	°C	
Processing (Melt) Temp	241 - 285	°C	
Mold Temperature	71.9 - 72.5	°C	
Injection Pressure	86.0 - 86.4	MPa	
Injection instructions			

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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

