

Generic ABS - Stainless Steel Fiber

Acrylonitrile Butadiene Styrene

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			
--	1.09 - 1.52	g/cm ³	ASTM D792
23°C	1.11 - 1.16	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.48 - 0.64	%	ASTM D955
23°C	0.18 - 0.56	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.20 - 0.31	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2210 - 3170	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	37.6 - 50.5	MPa	ASTM D638
Yield, 23°C	37.7 - 40.2	MPa	ISO 527-2
Fracture, 23°C	39.1 - 50.6	MPa	ASTM D638
23°C	27.6 - 37.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	1.8 - 6.1	%	ASTM D638
Fracture, 23°C	2.0 - 8.6	%	ASTM D638
Flexural Modulus			
23°C	2400 - 3160	MPa	ASTM D790
23°C	2500 - 2820	MPa	ISO 178
Flexural Strength			
23°C	43.8 - 89.7	MPa	ASTM D790
23°C	59.8 - 66.4	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27 - 60	J/m	ASTM D256
23°C	7.0 - 7.5	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	150 - 320	J/m	ASTM D256
23°C	18 - 20	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	96.3 - 107	°C	ASTM D648
1.8 MPa, not annealed	86.7 - 141	°C	ASTM D648
1.8 MPa, not annealed	78.0 - 80.2	°C	ISO 75-2/A
CLTE - Flow	8.1E-5 - 8.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.5 - 2.5E+8	ohms	ASTM D257
Volume Resistivity (23°C)	0.10 - 2.5E+8	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.1 - 82.2	°C	
Drying Time	2.0 - 9.0	hr	
Suggested Max Moisture	0.075 - 0.10	%	
Rear Temperature	215 - 260	°C	
Middle Temperature	228 - 260	°C	
Front Temperature	215 - 261	°C	
Nozzle Temperature	210	°C	
Processing (Melt) Temp	225 - 246	°C	
Mold Temperature	65.6 - 82.2	°C	
Injection Pressure	85.9 - 103	MPa	
Back Pressure	0.258 - 0.517	MPa	
Injection instructions			

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