

Generic Nylon 6 - Glass Bead\Glass Fiber

Polyamide 6

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass Beads \Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.34 - 1.36	g/cm ³	ASTM D792
23°C	1.34 - 1.37	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.39 - 0.61	%	ASTM D955
23°C	0.28 - 1.3	%	ISO 294-4
Water Absorption			
Saturated, 23°C	6.5 - 7.1	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0 - 2.3	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	185	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	6110 - 6210	MPa	ASTM D638
23°C	4700 - 8890	MPa	ISO 527-2
Tensile Strength			
Fracture, 23°C	116 - 125	MPa	ASTM D638
Fracture, 23°C	92.6 - 125	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	2.0 - 4.0	%	ASTM D638
Fracture, 23°C	2.4 - 5.0	%	ISO 527-2
Flexural Modulus			
23°C	4770 - 5810	MPa	ASTM D790
23°C	4690 - 5870	MPa	ISO 178
Flexural Strength			
23°C	130 - 200	MPa	ASTM D790
23°C	144 - 186	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0 - 12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	34 - 46	kJ/m ²	ISO 179

Notched Izod Impact			
23°C	37 - 61	J/m	ASTM D256
23°C	4.0 - 10	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	30 - 36	kJ/m ²	ISO 180
Multi-Axial Instrumented Impact Energy (23°C)	2.00 - 3.63	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force (23°C)	700 - 813	N	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	200 - 216	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	180 - 204	°C	ASTM D648
1.8 MPa, not annealed	189 - 192	°C	ISO 75-2/A
Vicat Softening Temperature	199 - 211	°C	ISO 306
Melting Temperature			
--	222	°C	ISO 11357-3
--	220	°C	ISO 3146
Linear thermal expansion coefficient			ISO 11359-2
Flow	3.0E-5 - 3.8E-5	cm/cm/°C	ISO 11359-2
Lateral	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 - 2.5E+14	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+13 - 2.5E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C)	11 - 37	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	4.25		IEC 60250
Dissipation Factor (23°C)	0.013 - 0.027		IEC 60250
Comparative Tracking Index	323 - 506	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	650 - 960	°C	IEC 60695-2-12
Oxygen Index	23 - 24	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 80.5	°C	
Drying Time	2.9 - 5.3	hr	
Suggested Max Moisture	0.085 - 0.20	%	
Rear Temperature	235 - 282	°C	
Middle Temperature	250 - 282	°C	
Front Temperature	255 - 282	°C	
Processing (Melt) Temp	245 - 280	°C	
Mold Temperature	70.0 - 101	°C	
Injection instructions			

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