

Generic Nylon, Unspecified - Glass Fiber

Polyamide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.20 - 1.65	g/cm ³	ASTM D792
23°C	1.37 - 1.72	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.10 - 0.53	%	ASTM D955
23°C	3.0E-3 - 1.1	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.15 - 0.53	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	122 - 125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3330 - 14700	MPa	ASTM D638
23°C	3300 - 24800	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	27.0 - 260	MPa	ASTM D638
Fracture, 23°C	26.0 - 260	MPa	ASTM D638
Fracture, 23°C	56.0 - 260	MPa	ISO 527-2
23°C	119 - 235	MPa	ASTM D638
23°C	169 - 247	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	1.5 - 5.0	%	ASTM D638
Fracture, 23°C	2.0 - 4.6	%	ASTM D638
Fracture, 23°C	1.7 - 2.7	%	ISO 527-2
Flexural Modulus			
23°C	2570 - 15400	MPa	ASTM D790
23°C	6420 - 19000	MPa	ISO 178
Flexural Strength			
23°C	158 - 349	MPa	ASTM D790
23°C	86.0 - 417	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	3.5 - 17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35 - 96	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	37 - 140	J/m	ASTM D256
Unnotched Izod Impact (23°C)	240 - 1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	138 - 224	°C	ASTM D648
0.45 MPa, not annealed	254 - 262	°C	ISO 75-2/B
1.8 MPa, not annealed	139 - 288	°C	ASTM D648
1.8 MPa, not annealed	224 - 270	°C	ISO 75-2/A
Melting Temperature	220 - 266	°C	ISO 11357-3
CLTE - Flow	2.2E-5 - 4.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12 - 1.0E+14	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+4 - 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (23°C)	19 - 24	kV/mm	ASTM D149
Comparative Tracking Index	593 - 600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	78.4 - 82.9	°C	
Drying Time	3.9 - 4.1	hr	
Dew Point	-40.0 - -39.4	°C	
Suggested Max Moisture	0.10 - 0.20	%	
Rear Temperature	259 - 330	°C	
Middle Temperature	285 - 330	°C	
Front Temperature	269 - 330	°C	
Processing (Melt) Temp	280 - 328	°C	
Mold Temperature	80.0 - 149	°C	
Injection Pressure	84.6 - 115	MPa	
Back Pressure	0.255 - 0.436	MPa	
Screw Speed	45 - 70	rpm	
Injection instructions			

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