

Generic Nylon 12 - Carbon Fiber

Polyamide 12

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05 - 1.30	g/cm ³	ASTM D792
23°C	1.06 - 1.15	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.050 - 0.20	%	ASTM D955
23°C	0.20 - 0.51	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	4140 - 21400	MPa	ASTM D638
23°C	8380 - 16200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	110 - 165	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	2.5 - 3.8	%	ASTM D638
Fracture, 23°C	1.0 - 4.1	%	ISO 527-2
Flexural Modulus			
23°C	6100 - 14000	MPa	ASTM D790
23°C	6830 - 7250	MPa	ISO 178
Flexural Strength			
23°C	117 - 241	MPa	ASTM D790
23°C	90.0 - 240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	52 - 120	J/m	ASTM D256
Unnotched Izod Impact (23°C)	480 - 1100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	163 - 177	°C	ASTM D648
1.8 MPa, not annealed	160 - 165	°C	ISO 75-2/A
Continuous Use Temperature	90.0 - 150	°C	ASTM D794
Injection	Nominal Value	Unit	
Drying Temperature	75.0 - 105	°C	

Drying Time	3.9 - 8.0	hr
Rear Temperature	221 - 241	°C
Middle Temperature	227 - 250	°C
Front Temperature	232 - 261	°C
Processing (Melt) Temp	231 - 251	°C
Mold Temperature	76.6 - 90.0	°C

Injection instructions

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Recommended distributors for this material

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