

NYLOY® NG-0050N

Polyamide 6

Nytex Composites Co., Ltd.

Message:

NYLOY® NG-0050N is a Polyamide 6 (Nylon 6) material filled with 50% glass fiber. It is available in Asia Pacific or North America for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.34	g/cm ³	ASTM D792
--	1.48	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow	0.34	%	
Across Flow	0.91	%	
Ash Content	43	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	119		ASTM D785
R-Scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	206	MPa	ASTM D638
--	198	MPa	ISO 527-2
Tensile Elongation			
Break	2.0	%	ASTM D638
Break	2.5	%	ISO 527-2
Flexural Modulus			
--	12400	MPa	ASTM D790
--	11000	MPa	ISO 178
Flexural Strength			
--	284	MPa	ASTM D790
--	300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 3.18 mm)	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

1.8 MPa, Unannealed	215	°C	ASTM D648
1.8 MPa, Unannealed	206	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	80.0	°C	

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Recommended distributors for this material

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