

NYLOY® PG-2040N

Polypropylene

Nytex Composites Co., Ltd.

Message:

NYLOY® PG-2040N is a Polypropylene material filled with 40% glass fiber. It is available in Asia Pacific or North America for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.10	g/cm ³	ASTM D792
--	1.27	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow	0.48	%	
Across Flow	1.0	%	
Ash Content	45	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	106		ASTM D785
R-Scale	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	80.4	MPa	ASTM D638
--	81.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.0	%	ASTM D638
Break	3.0	%	ISO 527-2
Flexural Modulus			
--	7360	MPa	ASTM D790
--	6500	MPa	ISO 178
Flexural Strength			
--	123	MPa	ASTM D790
--	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 3.18 mm)	83	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed	160	°C	ASTM D648
1.8 MPa, Unannealed	154	°C	ASTM D648
1.8 MPa, Unannealed	140	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	1.0 to 2.0	hr	
Processing (Melt) Temp	180 to 210	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

