

Niuk 40GP30

Polyamide 6

Shanghai Niuk New Plastic Technology Co., Ltd.

Message:

Niuk 40GP30 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific.

Important attributes of Niuk 40GP30 are:

Flame Rated

Corrosion Resistant

Creep Resistant

Good Toughness

Heat Resistant

Typical applications include:

Engineering/Industrial Parts

Electrical/Electronic Applications

Automotive

Housings

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Good Corrosion Resistance
	Good Creep Resistance
	Good Wear Resistance
	High Heat Resistance
	High Rigidity
	Ultra High Toughness
Uses	Automotive Applications
	Bearings
	Connectors
	Electrical/Electronic Applications
	Gears
	Housings
	Pulleys

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 2577
Across Flow : 3.20 mm	0.30 to 0.40	%	
Flow : 3.20 mm	0.60 to 0.70	%	
Ash Content	30	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	160	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus ²	7200	MPa	ISO 178

Flexural Stress ³	215	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	75	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	215	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	150x100x3.2 mm		
2.	2.0 mm/min		
3.	2.0 mm/min		

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