

Niuk 60GP10

Polybutylene Terephthalate

Shanghai Niuk New Plastic Technology Co., Ltd.

Message:

Niuk 60GP10 is a Polybutylene Terephthalate (PBT) material filled with 10% glass fiber. It is available in Asia Pacific.

Important attributes of Niuk 60GP10 are:

Flame Rated

Corrosion Resistant

Heat Resistant

Low Moisture Absorption

Rigid

Typical applications include:

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Corrosion Resistance		
	Good Electrical Properties		
	High Heat Resistance		
	High Rigidity		
	Low Moisture Absorption		
Uses	Connectors		
	Electrical/Electronic Applications		
	Gears		
	Pump Parts		
	Switches		
	Valves/Valve Parts		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 2577
Across Flow : 3.20 mm	0.70 to 0.90	%	
Flow : 3.20 mm	1.5 to 1.7	%	
Ash Content	10	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	85.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus ²	3500	MPa	ISO 178
Flexural Stress ³	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	200	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	°C	ISO 75-2/A
Vicat Softening Temperature	205	°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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