

Niuk 10GP20

Polypropylene

Shanghai Niuk New Plastic Technology Co., Ltd.

Message:

Niuk 10GP20 is a Polypropylene material filled with 20% glass fiber. It is available in Asia Pacific.

Important attributes of Niuk 10GP20 are:

Flame Rated

Heat Resistant

Rigid

Typical applications include:

Automotive

Housings

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	High Heat Resistance		
	High Rigidity		
Uses	Automotive Applications		
	Electrical Housing		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	10	g/10 min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 3.20 mm	0.40 to 0.50	%	
Flow : 3.20 mm	0.80 to 0.90	%	
Ash Content	20	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	68.0	MPa	ISO 527-2/50
Tensile Strain (Break)	5.0	%	ISO 527-2/50
Flexural Modulus ²	4200	MPa	ISO 178
Flexural Stress ³	110	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)	42	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	155	°C	ISO 75-2/B
1.8 MPa, Unannealed	120	°C	ISO 75-2/A
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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