

Tecomid® NBX0 GR60 NL

Polyamide 6
Eurotec Engineering Plastics

Message:
PA6, 60% glass fiber reinforced, natural

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 60% filler by weight		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6 GF60		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.80	%	Internal method
Flow direction	0.10	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	ISO 62
Moisture Content		%	ISO 960
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	20000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	225	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	15	kJ/m ²	ISO 180/1A
23°C	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	215	°C	ISO 75-2/A
Vicat Softening Temperature	215	°C	ISO 306/B
Melting Temperature ¹	223	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		UL 94
1.60 mm	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 - 4.0	hr
Hopper Temperature	60.0 - 80.0	°C
Processing (Melt) Temp	250 - 270	°C
Mold Temperature	60.0 - 100	°C
Injection Rate	Fast	
Holding Pressure	50.0 - 100	MPa
Injection instructions		
Pre-drying is not necessary for materials in moisture proof closed bags.		
NOTE		

1. 10 K/min

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