Surface resistivity

Comparative tracking index

Moisture absorption from air

24h/23°C

30 min at boiling

OTHER PROPERTIES

Water absorption, %

Density

GRODNAMID PA6-GF20 M10

 10^{12}

1.3

1.6

1.9

1.35

Ohm

%

%

 g/cm^3



	Test method	Unit	Value
RHEOLOGICAL PROPERTIES			
Melt Flow Rate (270°C, 2,16 kg load)	ISO 1133	g/10 min	16 – 20
Molding shrinkage $(60 \times 60 \times 2 mm)$	ISO 294-4	%	0.5 - 0.8
MECHANICAL PROPERTIES			
Tensile strength (5 mm/min)	ISO 527	МРа	105
Elongation at break (5 mm/min)	ISO 527	%	3
Tensile modulus (1 mm/min)	ISO 527	МРа	6800
Flexural stress (2 mm/min)	ISO 178	MPa	190
Flexural modulus (2 mm/min)	ISO 178	MPa	7300
Charpy impact strength (+23°C)	ISO 179/1eU	kJ/m^2	40
Charpy impact strength (−30 °C)	ISO 179/1eU	kJ/m^2	_
Charpy notched impact strength (+23°C)	ISO 179/1eA	kJ/m^2	7
Charpy notched impact strength (- 30°C)	ISO 179/1eA	kJ/m^2	_
THERMAL PROPERTIES			
Melting point (10 °C/min)	ISO 3146	$^{\circ}C$	217
Temp. of deflection under load			
0.45 MPa 1.80 MPa	ISO 75-1/-2	$^{\circ}C$	180 – 190 170 – 180
Vicat softening point (50 °C/h)	ISO 306	°C	_
ELECTRICAL PROPERTIES			
Volume resistivity	IEC 60093	$Ohm \times m$	10^{12}

IEC 60093

IEC 60112

Sim. to ISO 62

Sim. to ISO 62

ISO 1183



GRODNAMID PA6-GF20 M10

CHARACTERISTICS

Glass fiber and mineral reinforced polyamide 6 compound. The material features high mechanical strength, dimensional stability, narrow range of shrinkage, low warp. The material has chemical resistance to hydrocarbons, mineral oils, concentrated and weak alkalis, weak acids.

APPLICATION

For injection molding of different parts in automotive, machine-building, electrical and furniture industries, production of household and other articles

PREPROCESSING

Processing moisture content < 0.2 %.

If drying becomes necessary:

- drying in dehumidified dryer, drying temperature 80°C,
- drying time is dependent on moisture level.

PROCESSING

Melt temperature $230 \div 260$ °C. To avoid degradation it is recommended to limit injection molding temperature to 290 °C.

Injection pressure 80 ÷ 130 MPa, recommended 90 MPa.

Mold temperature 60 ÷ 90 °C. A higher mold temperature leads to higher shrinkage.

COLOUR

The material is available in pigmented version.

RECYCLING

Clean milled post production wastes could be recycled after mixing with fresh plastics. The amount of milled plastic added to natural plastic is controlled depending on final product quality requirements, it may reach up to 50 %. Final product properties depend rather more on quality of recycled or milled polyamide then on its share. Attention shall be paid not to use milled scraps having more than 0.2 % water.

PACKAGING

- 1) PET/ALU/PE bags with/without a degassing valve. The bags are stacked on a pallet with the following stretch-foiling. Bag weight: 25 kg net. Pallet weight: 1000 kg. Quantity to be loaded in a truck (82m³) and 40' marine container: 20000 kg net (20 pallets).
- 2) Polyethylene bags with a valve. The valve is sealed with scotch film. The bags are stacked on a pallet with the following stretch-foiling. Bag weight: 30 kg net. Pallet weight: 960 kg / Bag weight: 25 kg net. Pallet weight: 1000 kg. Quantity to be loaded in a truck $(82m^3)$ and 40'' marine container: 20160 kg net (21 pallets) / 20000 kg net (20 pallets).

Data given are average values and should not be used for specification purpose. In order to check the availability of products please contact our sales office.

SALES OFFICE

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