

AKROMID® PRELIMINARY

NEXT B28 GF 50 1 black (8897BMBCI)

PA6 GF 50

AKROMID®NEXT B28 GF 50 1 black (8897BMBCI) is a 50% glass fiber reinforced polyamide 6 with a better flowability. It is characterised by a very high stiffness and strength. Furthermore, the material is heat stabilised and therefore perfectly suitable for technical parts in industrial engineering and in the automotive industry. The material is certified according to ISCC PLUS. 95 % of the fossil raw materials required for manufacturing this product were replaced by sustainable biomass-balanced PA (Allocation factor).

Features

heat stabilised 130 easy flow

Properties

Modulus	Strength	Impact
16.500 MPa	225 MPa	85 kJ/m ²

Sustainability

Allocation factor	95 %
only valid for ISCC PLUS/REDcert ² certified products	

Mechanical Properties

Tensile modulus	1 mm/min d.a.m.	16500 MPa
ISO 527-2		
Tensile stress at break	5 mm/min d.a.m.	225 MPa
ISO 527-2		
Tensile strain at break	5 mm/min d.a.m.	2,5 %
ISO 527-2		
Charpy impact strength	23°C d.a.m.	85 kJ/m ²
ISO 179-1/1eU		
Charpy notched impact strength	23°C d.a.m.	draft1 kJ/m ²
ISO 179-1/1eA		

Thermal Properties

Temperature of deflection under load HDT/A ISO 75	1,8 MPa	220 °C
Melting temperature ISO 11357-3	DSC, 10K/min	220 °C

Flammability

Flammability UL 94	1,6 mm Wall thickness	HB Class
Burning rate (<100 mm/min) FMVSS 302	> 1 mm Thickness	+

General Properties

Density ISO 1183	23°C	1,56 g/cm ³
Molding shrinkage ISO 294-4	flow transverse	0,1 - 0,3 % 0,4 - 0,6 %

Processing

The values mentioned are recommendations. We only recommend desiccant / dry air dryers or vacuum dryers. Too long a drying time and the resulting residual moisture content below the lower limit can lead to filling problems and surface defects. The specified drying time refers to closed and undamaged bagged material. When processing from previously opened bags or from octabins with polyolefin inliners, a longer drying time may be necessary. It is recommended to check the residual moisture content after the drying process.



D	Drying time	0 - 4 h
	Drying temperature ($\tau \leq -30^{\circ}\text{C}$)	80 °C
	Processing moisture	0,02 - 0,1 %
1	Feed section	60 - 80 °C
2	Temperature Zone 1 - Zone 4	240 - 290 °C
3	Nozzle temperature	260 - 300 °C
4	Melt temperature	270 - 290 °C
5	Mold temperature	80 - 100 °C
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	50 - 150 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min