

AKROMID®

NEXT B28 GF 30 2 black (7059BMBCI)

PA6 GF30

AKROMID®NEXT B28 GF 30 2 black (7059BMBCI) is a 30% glass fiber reinforced, easy flowing polyamide 6. It is characterised by a high stiffness and strength. Furthermore, the material is UV and heat stabilised and therefore perfectly suitable for technical components in outdoor applications. The material is certified according to ISCC PLUS. 93 % of the fossil raw materials required for manufacturing this product were replaced by sustainable biomass-balanced PA (Y allocation factor)

Features

biomass balanced heat stabilised 130 UV-stabilised

easy flow Sports & leisure

Regulatory



Properties

Modulus

10.000 MPa

Strength

180 MPa

Impact

70 kJ/m²

Sustainability

Allocation factor

only valid for ISCC PLUS/REDcert² certified products

93 %

Mechanical Properties

Tensile modulus

ISO 527-2

1 mm/min | d.a.m.

10000 MPa

1 mm/min | conditioned

6500 MPa

Tensile stress at break

ISO 527-2

5 mm/min | d.a.m.

180 MPa

5 mm/min | conditioned

110 MPa

Tensile strain at break

ISO 527-2

5 mm/min | d.a.m.

3 %

5 mm/min | conditioned

4,5 %

Charpy impact strength

ISO 179-1/1eU

23°C | d.a.m.

70 kJ/m²

23°C | conditioned

80 kJ/m²

-40°C | d.a.m.

9 kJ/m²

Thermal Properties

Temperature of deflection under load HDT/A

ISO 75

1,8 MPa

210 °C

Temperature of deflection under load HDT/B

ISO 75

0,45 MPa

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

1,36 g/cm³

Molding shrinkage

ISO 294-4

flow

0,1 - 0,3 %

transverse

0,5 - 0,7 %

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 |