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AKROMID®
B3 GF 30 S1 white (3767)

PA6-I GF30

AKROMID® B3 GF 30 S1 white (3767) is a 30% glass fiber reinforced, impact modified Polyamide 6 in white color, similar to RAL 9010. It is characterised by high stiffness and strength as well as a higher notched impact strength compared to a standard PA 6 GF 30. The material is therefore perfectly suitable for industrial applications and for housings and covers in the automotive industry.

Features

impact modified

Properties

Modulus	Strength	Impact
9.000 MPa	**160** MPa	**105** kJ/m²

Mechanical Properties

Tensile modulus ISO 527-2	1 mm/min | d.a.m.	**9000 MPa**
Tensile stress at break ISO 527-2	5 mm/min | d.a.m.	**160 MPa**
Tensile strain at break ISO 527-2	5 mm/min | d.a.m.	**4,5 %**
Flexural modulus ISO 178	2 mm/min | d.a.m.	**7700 MPa**
Flexural strength ISO 178	2 mm/min | d.a.m.	**250 MPa**
Flexural strain at break ISO 178	2 mm/min | d.a.m.	**4,5 %**
Charpy impact strength ISO 179-1/1eU	23°C | d.a.m. -30°C | d.a.m.	**105 kJ/m²** **110 kJ/m²**

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Charpy notched impact strength ISO 179-1/1eA	23°C | d.a.m. -30°C | d.a.m.	**20 kJ/m²** **16 kJ/m²**

Thermal Properties

Temperature of deflection under load HDT/A ISO 75	1,8 MPa	**205 °C**
Temperature of deflection under load HDT/C ISO 75	8 MPa	**145 °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	**1,39 g/cm³**
Molding shrinkage ISO 294-4	flow transverse	**0,1 - 0,3 %** **0,5 - 0,7 %**

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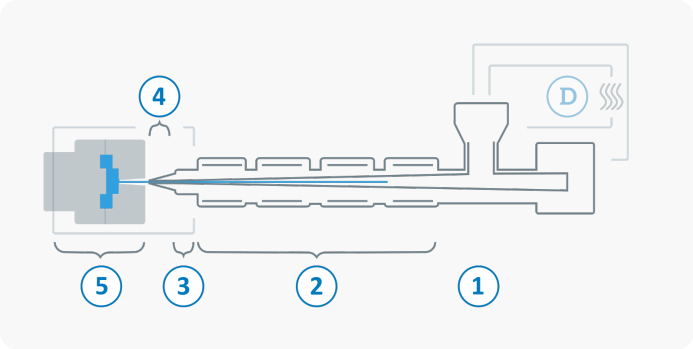
Processing

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 (τ <= -30°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