

Compound No.: 7285

AKROMID® B3 GF 30 5 black (7285)

PA6 GF30

AKROMID® B3 GF 30 5 black (7285) is a 30% glass fiber reinforced polyamide 6. It is characterised by a very high stiffness and strength. Furthermore, the material is high heat stabilised and therefore perfectly suitable for technical parts which are used at elevated temperatures in industrial engineering and in the automotive industry. As successor AKROMID® B3 GF 30 5 black (8536) was delevoped, to meet the stringent UV stability requirements for outdoor applications.

Features

heat stabilised 160

Properties

Modulus	Strength	Impact
9.500 MPa	170 MPa	85 kJ/m²

Mechanical Properties

Tensile modulus ISO 527-2	1 mm/min d.a.m.	9500 MPa
Tensile stress at break ISO 527-2	5 mm/min d.a.m.	170 MPa
Tensile strain at break ISO 527-2	5 mm/min d.a.m.	3,5 %
Charpy impact strength ISO 179-1/1eU	23°C d.a.m.	85 kJ/m²
Charpy notched impact strength ISO 179-1/1eA	23°C d.a.m.	13 kJ/m²

Thermal Properties

Melting temperature		
- ·	DSC, 10K/min	220 °C
ISO 11357-3		



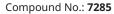
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Flammability

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

General Properties

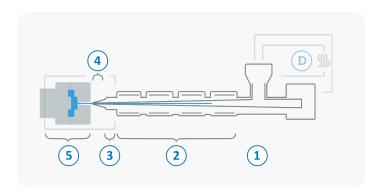
Density ISO 1183	23°C	1,35 g/cm³
Humidity absorption ISO 1110	70°C, 62% r.H.	2,1 - 2,3 %
Water absorption ISO 62	23°C, saturated	6,3 - 6,9 %
Molding shrinkage ISO 294-4	flow transverse	0,1 - 0,3 % 0,5 - 0,7 %





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 (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
\ni	Holding pressure, spec.	300 - 800 bar
	Back pressure, spec.	50 - 150 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min