+135-3858-6433 (GuangDong)
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AKRO COMPOUNDS

Compound No.: **8748**

AKROMID® PRELIMINARY
B3 GM 10/20 1 black (8748)

PA6 (GF10+GB20)

AKROMID® B3 GM 10/20 1 black (8748) is a 10% glass fiber and 20% glass beads reinforced easy flowing PA 6. It is characterised by a medium stiffness and strength. The material impresses with very good surface properties and is therefore perfectly suitable for housings and covers in the automotive industry with high demands on the surface.

Features

heat stabilised 130 | recycled content | easy flow

Properties

Modulus	Strength	Impact
5.700 MPa	**110** MPa	**30** kJ/m²

Sustainability

Recycled content	**20 %**

Mechanical Properties

Tensile modulus ISO 527-2	1 mm/min | d.a.m. 1 mm/min | conditioned	**5700 MPa** **3000 MPa**
Tensile stress at break ISO 527-2	5 mm/min | d.a.m. 5 mm/min | conditioned	**110 MPa** **60 MPa**
Tensile strain at break ISO 527-2	5 mm/min | d.a.m. 5 mm/min | conditioned	**2,6 %** **10 %**
Charpy impact strength ISO 179-1/1eU	23°C | d.a.m.	**30 kJ/m²**
Charpy notched impact strength ISO 179-1/1eA	23°C | d.a.m. 23°C | conditioned	**4 kJ/m²** **7 kJ/m²**

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Thermal Properties

Temperature of deflection under load HDT/A ISO 75	1,8 MPa	**200 °C**
Melting temperature ISO 11357-3	DSC, 10K/min	**220 °C**

Flammability

Flammability UL 94	1,6 mm Wall thickness	**HB Class**
GWFI IEC 60695-2-12	1,6 mm Wall thickness	**650 °C**
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.	**2,2 %**
Molding shrinkage ISO 294-4	flow transverse	**0,3 - 0,5 %** **0,6 - 0,8 %**

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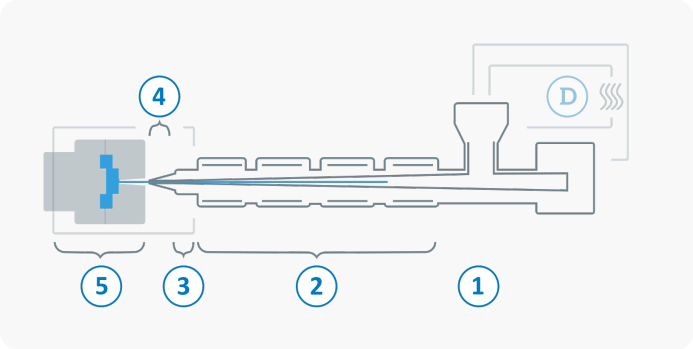
Processing

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