

AKROMID®

D3 GF 40 1 black (8463)

PA612 GF40

AKROMID® D3 GF 40 1 black (8463) is a 40% glass fibre reinforced, heat stabilised polyamide 6.12 with lower moisture absorption. Due to its good chemical resistance, the compound is suitable for media-carrying connectors.

Features

heat stabilised 130 reduced moisture

Properties

Modulus

11.000 MPa

Strength

180 MPa

Impact

90 kJ/m²

Mechanical Properties

Tensile modulus

ISO 527-2

1 mm/min | d.a.m.

11000 MPa

Tensile stress at break

ISO 527-2

5 mm/min | d.a.m.

180 MPa

Tensile strain at break

ISO 527-2

5 mm/min | d.a.m.

3,8 %

Charpy impact strength

ISO 179-1/1eU

23°C | d.a.m.

90 kJ/m²

23°C | conditioned

100 kJ/m²

Charpy notched impact strength

ISO 179-1/1eA

23°C | d.a.m.

15 kJ/m²

23°C | conditioned

15 kJ/m²

Thermal Properties

Melting temperature

ISO 11357-3

DSC, 10K/min

215 °C

Flammability

Flammability

UL 94

0,8 mm Wall thickness

HB Class

General Properties

Humidity absorption

ISO 1110

70°C, 62% r.H.

1,40 %

Molding shrinkage

ISO 294-4

flow

0,3 - 0,5 %

transverse

0,7 - 0,9 %

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	230 - 290 °C
3	Nozzle temperature	240 - 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