

AKROMID®

B3 GF 50 S1 black 950089 (2000)

PA6-I GF50

AKRO-PLASTIC GmbH

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Datasheet

Description

AKROMID® B3 GF 50 S1 black 950089 (2000) is a 50% glass fibre reinforced, cold impact strength polyamide 6 with very high rigidity and strength

Applications

Applications are mainly components in mechanical engineering and in the automotive industry

Typical values	Test specification	Method	Unit	Value	
				d.a.m.	moist.*

Mechanical Properties

Tensile modulus	1 mm/min	ISO 527-2	MPa	15000	7800
Tensile stress at break	5 mm/min	ISO 527-2	MPa	190	120
Elongation at break	5 mm/min	ISO 527-2	%	5	8
Charpy impact strength	23°C	ISO 179-1/1eU	kJ/m ²	> 100	> 110
Charpy impact strength	-30°C	ISO 179-1/1eU	kJ/m ²	> 100	
Charpy notched impact strength	23°C	ISO 179-1/1eA	kJ/m ²	25	40
Charpy notched impact strength	-30°C	ISO 179-1/1eA	kJ/m ²	20	20

Thermal Properties

				d.a.m.
Melting Point	DSC, 10K/min	DIN EN 11357-1	°C	222
Heat distortion temperature HDT/A	1,8 MPa	ISO 75	°C	210

Flammability

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

General Properties

Density	23°C	ISO 1183	g/cm ³	1,54
Content reinforcement		ISO 1172	%	50
Humidity absorption	70°C,62% r.h.	ISO 1110	%	1,3

Processing

Flowability	Flowspiral ¹	AKRO	mm	340
Molding shrinkage	flow	ISO 294-4	%	0,5
Molding shrinkage	transverse	ISO 294-4	%	0,9

* moist. = specimen acc. ISO 1110 stored

AKRO-PLASTIC GmbH

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