

AKROMID®

A3 GF 35 3 black (1802)

PA66 GF35



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Datasheet

Description:

AKROMID® A3 GF 35 3 black (1802) is a 35% glass fibre reinforced, nucleated polyamide 6.6 with high stiffness 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.
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Mechanical Properties

Tensile modulus	1 mm/min	ISO 527-2	MPa	11500
Tensile stress at break	5 mm/min	ISO 527-2	MPa	180
Elongation at break	5 mm/min	ISO 527-2	%	2,3
Flexural modulus	2 mm/min	ISO 178	MPa	8000
Flexural strength	2 mm/min	ISO 178	MPa	250
Flexural strain at break	2 mm/min	ISO 178	%	3,7
Charpy impact strength	23°C	ISO 179-1/1eU	kJ/m ²	> 50
Charpy impact strength	-30°C	ISO 179-1/1eU	kJ/m ²	53
Charpy notched impact strength	23°C	ISO 179-1/1eA	kJ/m ²	9
Charpy notched impact strength	-30°C	ISO 179-1/1eA	kJ/m ²	6

Thermal Properties

Melting Point	DSC, 10K/min	DIN EN 11357-1	°C	262
Heat distortion temperature HDT/A	1,8 MPa	ISO 75	°C	250
Heat distortion temperature HDT/B	0,45 MPa	ISO 75	°C	265

Flammability

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

General Properties

Density	23°C	ISO 1183	g/cm ³	1,41
Content reinforcement/Content Filler		ISO 1172	%	35