

Datasheet

Description:

AKROMID® B3 GF 30 S1 black (4446) is a 30% glass fibre reinforced, cold impact strength, laser markable polyamide 6 with high stiffness and strength

Applications

Applications are housings and covers for the automotive industry and power tools

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	8400
Stress at break	5 mm/min	ISO 527-2	MPa	150
Strain at break	5 mm/min	ISO 527-2	%	5
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	%	4,8
Charpy impact strength	23°C	ISO 179-1/1eU	kJ/m ²	105
Charpy impact strength	-30°C	ISO 179-1/1eU	kJ/m ²	110
Charpy notched impact strength	23°C	ISO 179-1/1eA	kJ/m ²	23
Charpy notched impact strength	-30°C	ISO 179-1/1eA	kJ/m ²	15

Thermal Properties

Melting temperature	DSC, 10K/min	DIN EN 11357-1	°C	222
Temp. of deflection under load HDT/A	1,8 MPa	ISO 75	°C	205
Temp. of deflection under load HDT/C	8 MPa	ISO 75	°C	145

Flammability

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

General Properties

Content reinforcement/Content Filler		ISO 1172	%	30
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