

PA6.6 – Polyamide 6.6 PA66 GF35

AKROMID® A3 GF 35 2 black (21010)

Tensile modulus

12000 MPa

1 mm/min
ISO 527-2

Stress at break

185 MPa

5 mm/min
ISO 527-2

Charpy impact strength

50 kJ/m²

23°C
ISO 179-1/1eU

AKROMID® A3 GF 35 2 black (21010) is a 35% glass fibre reinforced, UV-stabilised polyamide 6.6 with high stiffness and strength

Typical applications

Components in mechanical engineering and in the automotive industry



Mechanical Properties

Tensile modulus (1 mm/min | ISO 527-2)

d.a.m.	12000 MPa
conditioned	8400 MPa

Stress at break (5 mm/min | ISO 527-2)

d.a.m.	185 MPa
conditioned	130 MPa

Strain at break (5 mm/min | ISO 527-2)

d.a.m.	2 %
conditioned	3,5 %

Charpy impact strength (23°C | ISO 179-1/1eU)

d.a.m.	50 kJ/m ²
conditioned	65 kJ/m ²

Charpy notched impact strength (23°C | ISO 179-1/1eA)

d.a.m.	8 kJ/m ²
conditioned	10 kJ/m ²



Thermal Properties

Temperature of deflection under load HDT/A (1,8 MPa | ISO 75) 255 °C

Temperature of deflection under load HDT/B (0,45 MPa | ISO 75) 260 °C

Temperature of deflection under load HDT/C (8 MPa | ISO 75) 220 °C

Melting temperature (DSC, 10K/min | DIN EN 11357-1) 262 °C



Flammability

Burning rate (UL 94)

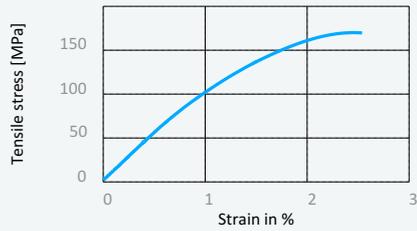
1,6mm Wall thickness HB Class

Burning rate (<100 mm/min) (> 1 mm Thickness | FMVSS 302) +

Disclaimer:

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Stress strain chart at 23°C



General properties

Density (23°C ISO 1183)	1,4 g/cm ³
Humidity absorption (70°C, 62% r.H. ISO 1110)	1,8 - 2,0 %
Water absorption 23°C saturated (23°C, saturated ISO 62)	4,7 - 5,3 %
Molding shrinkage (flow ISO 294-4)	0,1-0,3 %
Molding shrinkage (transverse ISO 294-4)	0,6-0,8 %



Electrical Properties

Surface resistivity (acc. to IEC 60093) d.a.m. conditioned	1,0E+12 Ohm 1,0E+10 Ohm
Comparative tracking index (Test liquid A IEC 60112)	600 V

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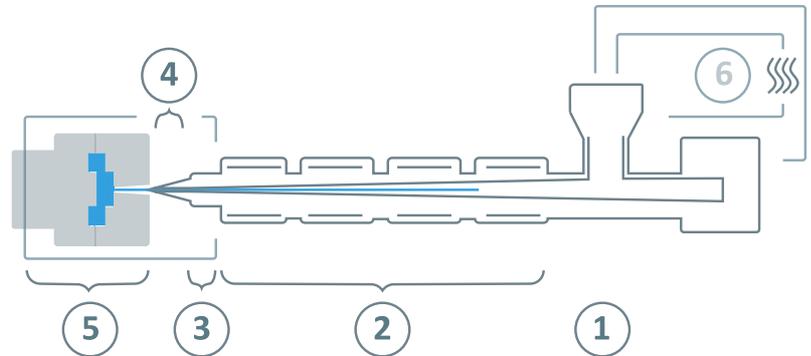
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Processing information

The listed values are recommendations. Higher values should be used for higher glass loadings. We recommend only dehumidifying or vacuum dryers. Extensive drying can cause filling problems and surface defects.



⑥	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	260 - 300°C
③	Nozzle temperature	270 - 310°C
④	Melt temperature	280 - 300°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

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