

PA6.9 – Polyamide 6.9 PA6.9 + PP GF30

AKROMID® NEXT G3 GF 30 1 L CI black (8376)

Tensile modulus

8000 MPa

1 mm/min

ISO 527-2

Stress at break

125 MPa

5 mm/min

ISO 527-2

Charpy impact strength

65 kJ/m²

23°C

ISO 179-1/1eU

AKROMID® NEXT G3 GF 30 1 L CI black (8376) - PA 6.9/PP blend, bio-based, certified, low moisture absorption, weight reduction.

Regulatory



Mechanical Properties

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

d.a.m.

8000 MPa

conditioned

7000 MPa

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

d.a.m.

125 MPa

conditioned

110 MPa

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

d.a.m.

3,1 %

conditioned

4,0 %

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

d.a.m.

65 kJ/m²

conditioned

65 kJ/m²

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

d.a.m.

14,5 kJ/m²

conditioned

15,0 kJ/m²



Thermal Properties

Melting temperature (DSC, 10K/min | DIN EN ISO 11357-3)

219 °C



General properties

Density (23°C | ISO 1183)

1,23 g/cm³

Humidity absorption (70°C, 62% r.H. | ISO 1110)

0,7-0,9 %

Water absorption 23°C saturated (23°C, saturated | ISO 62)

2,0-2,4 %

Molding shrinkage (flow | ISO 294-4)

0,1-0,3 %

Molding shrinkage (transverse | ISO 294-4)

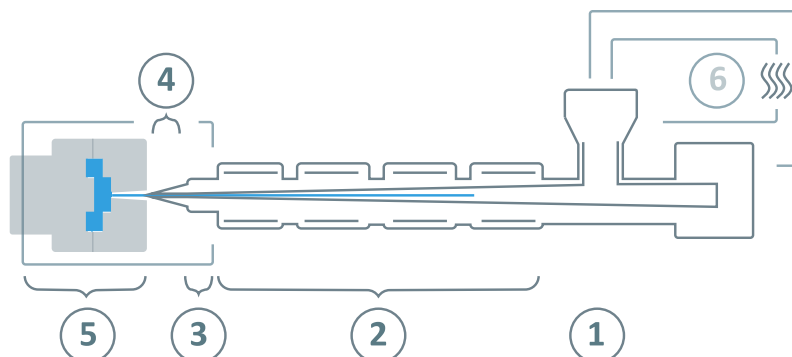
0,6-0,8 %

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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	240 - 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