

**PA6-GF30**

30% glass fiber reinforced

Version 04.11.2020

Mechanical Properties	Typical data (d/c)*	Unit	Test method
Stress at break	180 / 110	MPa	ISO 527-1/-2
Strain at break	3,5 / 7	%	ISO 527-1/-2
Tensile Modulus	9500 / 6000	MPa	ISO 527-1/-2
Flexural strength	235 / -	MPa	ISO 178
Flexural modulus	8600 / -	MPa	ISO 178
Charpy Impact strength (+23°C)	90 / 110	kJ/m ²	ISO 179/1eU
Charpy notched Impact strength (+23°C)	12 / 25	kJ/m ²	ISO 179/1eA
Charpy impact strength (- 30°C)	75 / 75	kJ/m ²	ISO 179/1eU
Charpy notched Impact strength (-30°C)	11 / 11	kJ/m ²	ISO 179/1eA

Thermal Properties	Typical data (d)**	Unit	Test method
Melting temperature, 10 ⁰ C/min	220	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75-1/-2
CTE, linear, Parallel to Flow	0,2	E-4/°C	ISO 11359-1/-2
CTE, linear, Transverse to Flow	0,7	E-4/°C	ISO 11359-1/-2

Electrical Properties	Typical data (d/c)*	Unit	Test method
CTI Tracking index	- / 600	V	IEC 60112
Surface resistivity	- / 10 ¹⁴	Ohm	IEC 60093
Volume resistivity	10 ¹³ / 10 ¹¹	Ohm*m	IEC 60093

Physical Properties	Typical data (d)**	Unit	Test method
Density	1350	kg/m ³	ISO 1183
Moisture absorption at Equilibrium	1,9	%	ISO 62
Water absorption at Saturation	6,3	%	ISO 62
Linear mold shrinkage, Flow	0,3	%	ISO 294-4
Linear mold shrinkage, Transverse	0,9	%	ISO 294-4

Flammability			
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Glow Wire Flammability Index	700	°C	IEC 60695-2-12

* Dry/Cond; ** Dry

Disclaimer: Unless specified to the contrary, the value given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum value. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions and the coloring.

Volgamid® B1G6



KuibyshevAzot
PUBLIC JOINT-STOCK COMPANY

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Processing Properties

Injection molding temperature	250-280	°C
Mold temperature	50-80	°C
Drying temperature	80	°C
Drying time	4-8	H
Moisture content before processing	<0,15	%

Characteristics

Designed for the production of injection molding of various products and parts in the automotive, machinery, household appliances and other industries

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