

## PA6 GF 30

**Produktdescription**      **PA 6** is a 30% glass fiber reinforced polyamide 6. It is characterised by high stiffness and strength. The material is therefore perfectly suitable for technical parts in industrial engineering and in the automotive industry.

**colour**                              nature / black

	Properties	Method		Unit	Value
<b>general</b>	Density	ISO 1183	23°C	g/m <sup>3</sup>	<b>1,36</b>
	Humidity absorption	ISO 1110	70° C, / 62 % r.H.	%	<b>2,1 – 2,3</b>
	Water absorption	ISO 62	23 ° C, saturated	%	<b>6,3 – 6,9</b>
	Molding shrinkage	ISO 294-4	flow transverse	%	<b>0,1 – 0,3 0,5 – 0,7</b>
<b>mechanical</b>	Tensile modulus	ISO 527-3	1 mm/min – d.a.m. 1 mm/min – conditioned	MPa	<b>10.300 6.200</b>
	Tensile stress at break	ISO 527-3	5 mm/min – d.a.m. 5 mm/min – conditioned	MPa	<b>185 110</b>
	Tensile strain at break	ISO 527-3	5 mm/min – d.a.m. 5 mm/min – conditioned	%	<b>3 6,1</b>
	Felxural modulus	ISO 178	2 mm/min – d.a.m.	MPa	<b>8.500</b>
	Felxural strength	ISO 178	2 mm/min – d.a.m.	MPa	<b>270</b>
	Charpy impact strength	ISO 179-1/eU	23° C – d.a.m. 23° C – conditioned -30° C – d.a.m.	kJ/m <sup>2</sup>	<b>95 105 85</b>
	Charpy notched impact strength	ISO 179-1/eA	23° C – d.a.m. 23° C – conditioned -30° C – d.a.m.	kJ/m <sup>2</sup>	<b>13 18 12</b>
	Ball indentation hardness	ISO 2039-1	961 N/30s – d.a.m.	MPa	<b>230</b>
<b>thermal</b>	Temperature of deflection under load HDT/A	ISO 75	1,8 MPa	°C	<b>210</b>
	Temperature of deflection under load HDT/B	ISO 75	0,45 MPa	°C	<b>220</b>
	Temperature of deflection under load HDT/C	ISO 75	8 MPa	°C	<b>150</b>
	Melting temperature	ISO 11357-3	DSC, 10K/min	°C	<b>220</b>
<b>electrical</b>	Volume resistivity IEC / DIN	ISO EN 62631-3-2	d.a.m. conditioned	Ω x cm	<b>10<sup>13</sup> 10<sup>10</sup></b>
	Surface resistivity	ISO EN 62631-3-2	d.a.m. conditioned	Ω	<b>10<sup>12</sup> 10<sup>10</sup></b>
<b>Flamability</b>	Burning rate	UL 94	1,6 mm Wall thickness		<b>HB Klasse</b>
	GWFI	IEC 60695-2-12	1,6 mm Wall thickness	°C	<b>650</b>
	Burning rate (< 100 mm/min)	FMVSS 302	> 1 mm Thickness		<b>+</b>

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