

## Multiplast Pa6 GF30

Multiplast Pa6 GF30 is an extruded polyamide with 30% glass fiber reinforcement, with:

- Very high strength
- Good UV resistance
- Raised thermal dimension stability

Properties	Units		
Modulus of elasticity (tensile test)	MPa	5700	
Tensile strength	MPa	98	
Tensile strength at yield	MPa	98	
Elongation at yield	%	4	
Elongation at break	%	5	
Modulus of elasticity (flexural test)	MPa	5200	
Flexural strength	MPa	140	
Compression modulus	MPa	4200	
Compressive strength (1% / 2%)	MPa	21 / 42	
Impact strength (Charpy)	kJ / m <sup>2</sup>	60	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	-	
Ball indentation hardness	MPa	232	
Glass transition temperature	°C	49	
Melting temperature	°C	218	
Service temperature	short term	°C	180
	long term	°C	100
Thermal expansion	23 °C – 60 °C	10 <sup>-5</sup> K <sup>-1</sup>	6
	23 °C – 100 °C	10 <sup>-5</sup> K <sup>-1</sup>	6
Specific heat	J / (g x K)	1,3	
Thermal conductivity	W / m K	0,41	

Properties	Units	
Specific surface resistance	$\Omega$	$10^{14}$
Specific volume resistance	$\Omega \times \text{cm}$	$10^{14}$
Dielectric strength	kV / mm	32
Resistance to tracking (CTI)	V	475
Water absorption 24 h / 96 h (@ 23°C)	%	0,2 / 0,3
Resistance to hot water / bases	-	Limited resistance
Resistance to weathering	-	Limited resistance
Flammability	UL94	HB
Density	g/cm <sup>3</sup>	1,36
Colour	-	Black

**Availability:**

Sheet:      Size:                      500 x 3000 mm (smaller sizes are possible)  
                  Thickness:                10 - 50 mm

                 Size:                      300 x 3000 mm (smaller sizes are possible)  
                  Thickness:                100 mm

Rod:           Length:                      3000 mm (shorter lengths are possible)  
                  Diameter                      20 - 125 mm

Cut pieces:    On request

Parts:           Finished products according to drawing