

Multiplast Pa6 natural

Multiplast Pa6 natural is a semi-crystalline polymers, an extruded polyamide, with:

- Extreme toughness
- Extreme impact resistance
- Good chemical resistance

Properties	Units		
Modulus of elasticity (tensile test)	MPa	3300	
Tensile strength	MPa	79	
Tensile strength at yield	MPa	78	
Elongation at yield	%	4	
Elongation at break	%	130	
Modulus of elasticity (flexural test)	MPa	2900	
Flexural strength	MPa	100	
Compression modulus	MPa	2700	
Compressive strength (1% / 2%)	MPa	24 / 41	
Impact strength (Charpy)	kJ / m ²	-	
Notched impact strength (Charpy)	kJ / m ²	7	
Ball indentation hardness	MPa	155	
Glass transition temperature	°C	45	
Melting temperature	°C	221	
Service temperature	short term	°C	160
	long term	°C	100
Thermal expansion	23 °C – 60 °C	10 ⁻⁵ K ⁻¹	12
	23 °C – 100 °C	10 ⁻⁵ K ⁻¹	13
Specific heat	J / (g x K)		1,6
Thermal conductivity	W / m K		0,37

Properties	Units	
Specific surface resistance	Ω	10 ¹⁴
Specific volume resistance	$\Omega \times \text{cm}$	10 ¹⁴
Dielectric strength	kV / mm	31
Resistance to tracking (CTI)	V	600
Water absorption 24 h / 96 h (@ 23°C)	%	0,3 / 0,6
Resistance to hot water / bases	-	Limited resistance
Resistance to weathering	-	Poor resistance
Flammability	UL94	HB
Density	g/cm ³	1,14
Colour	-	Ivory

Availability:

Sheet: Size: 500 x 3000 mm (smaller sizes are possible)
 Thickness: 5 - 100 mm

 Size: 620 x 3000 mm (smaller sizes are possible)
 Thickness: 10 - 50 mm

Rod: Length: 3000 mm (shorter lengths are possible)
 Diameter 6 - 250 mm

Tube: Length: 3000 mm (shorter lengths are possible)
 Minimum Inside diameter: Ø25 mm
 Maximum Outside diameter: Ø80 mm

Cut pieces: On request

Parts: Finished products according to drawing