

Multiplast Pa6G + Wax

Multiplast Pa6G + Wax is a semi-crystalline polymer, a cast polyamide, with:

- Good sliding properties
- Very low coefficient of friction
- High wear resistance
- Long service life
- Low stick-slip

Properties	Units		
Modulus of elasticity (tensile test)	MPa	3100	
Tensile strength	MPa	-	
Tensile strength at yield	MPa	80	
Elongation at yield	%	-	
Elongation at break	%	40	
Modulus of elasticity (flexural test)	MPa	3300	
Flexural strength	MPa	110	
Compression modulus	MPa	2800	
Compressive strength (1% / 2%)	MPa	-	
Impact strength (Charpy)	kJ / m ²	-	
Notched impact strength (Charpy)	kJ / m ²	>4	
Ball indentation hardness	MPa	160	
Coëfficiënt of Friction (against steel, dry running)	-	0,15	
Sliding wear (against steel, dry running)	µm/km	0,03	
Melting temperature	°C	220	
Service temperature	short term	°C	160
	long term	°C	105
Thermal expansion	23 °C – 60 °C	10 ⁻⁵ K ⁻¹	7-8
	23 °C – 100 °C	10 ⁻⁵ K ⁻¹	-
Specific heat	J / (g x K)		1,7
Thermal conductivity	W /m K		0,23

Properties	Units	
Specific surface resistance	Ω	10^{13}
Specific volume resistance	$\Omega \times \text{cm}$	10^{15}
Dielectric strength	kV / mm	50
Resistance to tracking (CTI)	V	-
Water absorption 24 h / 96 h (@ 23°C)	%	-
Resistance to hot water / bases	-	-
Resistance to weathering	-	-
Flammability	UL94	HB
Density	g/cm ³	1,14
Colour	-	Grey, Red and Green

Availability:

Sheet: Size: 1000 x 2000 mm
 Thickness: 8 - 100 mm

 Size: 1220 x 3000 mm
 Thickness: 15 – 120 mm

 Size: 1220 x 2000 mm
 Thickness: 10 – 100 mm

 Size: 1000 x 1000 mm
 Thickness: 110 x 165 mm

Rod: Length: 2000 mm
 Diameter: Ø30 – Ø200 mm

 Length: 1000 mm
 Diameter: Ø30 – Ø710 mm

Cut pieces: On request

Parts: Finished products conform drawing