

## 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 <sup>2</sup>	-	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	>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 <sup>-5</sup> K <sup>-1</sup>	7-8
	23 °C – 100 °C	10 <sup>-5</sup> K <sup>-1</sup>	-
Specific heat	J / (g x K)	1,7	
Thermal conductivity	W /m K	0,23	

Properties	Units	
Specific surface resistance	$\Omega$	$10^{13}$
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 <sup>3</sup>	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	



**Kühne Industrie B.V.**  
Gildenstraat 11B, 3861 RG Nijkerk  
Telefoon +31 (0)85 487 4800  
[www.kuhne-industrie.nl](http://www.kuhne-industrie.nl)