

## Multiplast Pa6G + Oil

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

- Good sliding properties
- Low coefficient of friction
- High wear resistance
- Low stick-slip

Properties	Units		
Modulus of elasticity (tensile test)	MPa	2800	
Tensile strength	MPa	-	
Tensile strength at yield	MPa	80	
Elongation at yield	%	-	
Elongation at break	%	50	
Modulus of elasticity (flexural test)	MPa	3000	
Flexural strength	MPa	135	
Compression modulus	MPa	-	
Compressive strength (1% / 2%)	MPa	-	
Impact strength (Charpy)	kJ / m <sup>2</sup>	-	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	>5	
Ball indentation hardness	MPa	150	
Coefficient 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
Color	-	Green

**Availability:**

Sheet:	Size:	1000 x 2000 mm (smaller sizes are possible)
	Thickness:	8 - 100 mm
Rod:	Length:	1000 mm (shorter lengths are possible)
	Diameter	Ø30 – Ø800 mm
Cut pieces:	On request	
Parts:	Finished products conform drawing	