

## Multiplast Pa6G + MoS2

Multiplast Pa6G + MoS2 is a semi-crystalline polymers, a cast polyamide, with:

- Good damping properties
- Good sliding properties, also in dry running conditions
- High degree of toughness
- High strength
- Improved surface hardness
- UV / weather resistant
- Not electrically insulating

Properties	Units		
Modulus of elasticity (tensile test)	MPa	3200	
Tensile strength	MPa	82	
Tensile strength at yield	MPa	80	
Elongation at yield	%	4	
Elongation at break	%	55	
Modulus of elasticity (flexural test)	MPa	3000	
Flexural strength	MPa	102	
Compression modulus	MPa	2800	
Compressive strength (1% / 2%)	MPa	22 / 38	
Impact strength (Charpy)	kJ / m <sup>2</sup>	-	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	4	
Ball indentation hardness	MPa	170	
Glass transition temperature	°C	43	
Melting temperature	°C	217	
Service temperature	short term	°C	170
	long term	°C	100
Thermal expansion	23 °C – 60 °C	10 <sup>-5</sup> K <sup>-1</sup>	11
	23 °C – 100 °C	10 <sup>-5</sup> K <sup>-1</sup>	11
Specific heat	J / (g x K)	1,6	
Thermal conductivity	W /m K	0,33	

Properties	Units	
Specific surface resistance	$\Omega$	$10^{14}$
Specific volume resistance	$\Omega \times \text{cm}$	$10^{14}$
Dielectric strength	kV / mm	-
Resistance to tracking (CTI)	V	-
Water absorption 24 h / 96 h (@ 23 °C)	%	0,2 / 0,5
Resistance to hot water / bases	-	Limited resistance
Resistance to weathering	-	Limited resistance
Flammability	UL94	HB
Density	g/cm <sup>3</sup>	1,15
Colour	-	Black

### Availability:

Sheet:	Size:	1000 x 2000 mm (smaller sizes are possible)
	Thickness:	10 - 120 mm
	Size:	1220 x 3000 mm (smaller sizes are possible)
	Thickness:	10 - 60 mm
Rod:	Length:	3000 mm (shorter lengths are possible)
	Diameter	50 - 500 mm
Cut pieces:	On request	
Parts:	Finished products according to drawing	