

## Multiplast POM-H natural

Multiplast POM-H natural, Polyoxymethylene, is a semi-crystalline thermoplastic, homopolymer, offering high strength and rigidity. Multiplast POM-H natural has:

- High Mechanical strength
- Very good machining properties
- Good sliding properties

Properties	Units		
Modulus of elasticity (tensile test)	MPa	3400	
Tensile strength	MPa	79	
Tensile strength at yield	MPa	79	
Elongation at yield	%	37	
Elongation at break	%	45	
Modulus of elasticity (flexural test)	MPa	3600	
Flexural strength	MPa	106	
Compression modulus	MPa	2700	
Compressive strength (1% / 2%)	MPa	19 / 33	
Impact strength (Charpy)	kJ / m <sup>2</sup>	-	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	15	
Ball indentation hardness	MPa	185	
Glass transition temperature	°C	-60	
Melting temperature	°C	182	
Service temperature	short term	°C	150
	long term	°C	110
Thermal expansion	23 °C – 60 °C	10 <sup>-5</sup> K <sup>-1</sup>	12
	23 °C – 100 °C	10 <sup>-5</sup> K <sup>-1</sup>	13
Specific heat	J / (g x K)	1,3	
Thermal conductivity	W /m K	0,43	

Properties	Units	
Specific surface resistance	$\Omega$	$10^{14}$
Specific volume resistance	$\Omega \times \text{cm}$	-
Dielectric strength	kV / mm	-
Resistance to tracking (CTI)	V	-
Water absorption 24 h / 96 h (@ 23°C)	%	0,05 / 0,1
Resistance to hot water / bases	-	Poor resistance
Resistance to weathering	-	Poor resistance
Flammability	UL94	HB
Density	g/cm <sup>3</sup>	1,43
Colour	-	White

**Availability:**

Sheet:            Size:                            Maximum 500 x 3000 mm (smaller sizes are possible)  
                       Thickness:                        6 - 60 mm for white

Rod:                Length:                            3000 mm (shorter lengths are possible)  
                       Diameter                        Ø10 - Ø200 mm for white

Cut pieces:        On request

Parts:                Finished parts according to drawing