

Multiplast POM-H black

Multiplast POM-H black, Polyoxymethylene, is a semi-crystalline thermoplastic, homopolymer, offering high strength and rigidity. Multiplast POM-H black 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 ²	-	
Notched impact strength (Charpy)	kJ / m ²	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 ⁻⁵ K ⁻¹	12
	23 °C – 100 °C	10 ⁻⁵ K ⁻¹	13
Specific heat	J / (g x K)		1,3
Thermal conductivity	W / m K		0,43

Properties	Units	
Specific surface resistance	Ω	10^{14}
Specific volume resistance	$\Omega \times \text{cm}$	10^{14}
Dielectric strength	kV / mm	38
Resistance to tracking (CTI)	V	600
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 ³	1,43
Colour	-	White / Black

Availability:

Sheet:	Size:	Maximum 500 x 3000 mm (smaller sizes are possible)
	Thickness:	6 – 100 mm
Rod:	Length:	3000 mm (shorter lengths are possible)
	Diameter:	Ø16 – Ø100 mm
Cut pieces:	On request	
Parts:	Finished parts according to drawing	