

## Multiplast POM-H TF

Multiplast POM-H TF, POM-H with PTFE has:

- Very good slide friction properties compared to Multiplast POM-C en POM-H
- Low wear
- Almost no stick-slip
- Low water absorption

Properties	Units		
Modulus of elasticity (tensile test)	MPa	3000	
Tensile strength	MPa	53	
Tensile strength at yield	MPa	53	
Elongation at yield	%	8	
Elongation at break	%	8	
Modulus of elasticity (flexural test)	MPa	3000	
Flexural strength	MPa	85	
Compression modulus	MPa	2400	
Compressive strength (1% / 2%)	MPa	19 / 33	
Impact strength (Charpy)	kJ / m <sup>2</sup>	-	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	25	
Ball indentation hardness	MPa	166	
Glass transition temperature	°C	-60	
Melting temperature	°C	179	
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		0,46

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>	1,49
Colour	-	Dark Brown

**Availability:**

Sheet:            Size:                            500 x 3000 mm (smaller sizes are possible)  
                       Thickness:                        10, 20 and 30 mm

Rod:                Length:                            3000 mm (shorter lengths are possible)  
                       Diameter                         $\varnothing 20$ ,  $\varnothing 30$  and  $\varnothing 40$  mm

Cut pieces:        On request

Parts:                Finished products according to drawing