

## Multiplast PET TF

Multiplast PET TF, Multiplast PET with PTFE, is a semi-crystalline polyester thermoplastic offering high level of hardness, rigidity and strength coupled with excellent sliding characteristics and low sliding abrasion. Multiplast PET TF has:

- Exelent sliding characteristics
- High abrasion resistance

Properties	Units		
Modulus of elasticity (tensile test)	MPa	3200	
Tensile strength	MPa	78	
Tensile strength at yield	MPa	78	
Elongation at yield	%	4	
Elongation at break	%	6	
Modulus of elasticity (flexural test)	MPa	3300	
Flexural strength	MPa	119	
Compression modulus	MPa	2700	
Compressive strength (1% / 2%)	MPa	21 / 38	
Impact strength (Charpy)	kJ / m <sup>2</sup>	42	
Notched impact strength (Charpy)	kJ / m <sup>2</sup>	-	
Ball indentation hardness	MPa	183	
Glass transition temperature	°C	82	
Melting temperature	°C	249	
Service temperature	short term	°C	170
	long term	°C	110
Thermal expansion	23 °C – 60 °C	10 <sup>-5</sup> K <sup>-1</sup>	8
	23 °C – 100 °C	10 <sup>-5</sup> K <sup>-1</sup>	10
Specific heat	J / (g x K)	-	
Thermal conductivity	W /m K	-	

Properties	Units	
Specific surface resistance	$\Omega$	10 <sup>14</sup>
Specific volume resistance	$\Omega \times \text{cm}$	10 <sup>14</sup>
Dielectric strength	kV / mm	-
Resistance to tracking (CTI)	V	-
Water absorption 24 h / 96 h (@ 23°C)	%	0,02 / 0,03
Resistance to hot water / bases	-	Poor resistance
Resistance to weathering	-	Poor resistance
Flammability	UL94	HB
Density	g/cm <sup>3</sup>	1,43
Colour	-	Grey

**Availability:**

Sheet:            Size:                            500 x 3000 mm (smaller sizes are possible)  
                       Thickness:                        10 - 50 mm

Rod:                Length:                        3000 mm (shorter lengths are possible)  
                       Diameter                        10 – 80 mm

Cut pieces:        On request

Parts:                Finished products according to drawing