



**CUT TO SIZE  
plastics**

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## TECHNICAL DATA SHEET PETP & PETP-GL

Mechanical properties	Standard	Unit	PET	PET GL
Density	DIN 53 479	g/cm <sup>3</sup>	1,38	1,43
Tensile strength (short duration)	DIN 53 455	MPa	80	75
Modulus of elasticity in flexure (short duration)	DIN 53 457	MPa	2.6	-
Modulus of elasticity in tension (short duration)	DIN 53 457	MPa	3	2.2
Bending strength	DIN 53 452	MPa	125	-
Impact strength	DIN 53 453	kJ/m <sup>2</sup>	n. B.	30
Notch impact strength	DIN 53 453	kJ/m <sup>2</sup>	>4	2
Ball indentation hardness H358/30	DIN 53 456	MPa	140	-
Sliding friction coefficient (dry run) 1)	-	-	0,25	0,2
<b>Thermal properties</b>				
Melting temperature	-	°C	255	255
Coefficient of linear expansion 2)	DIN VDE 0304	10 <sup>-5</sup> . K <sup>-1</sup>	7 - 8	7 - 8
Service temperature range 3)	-	°C	-20 to 100	-20 to 100
Max. Service temperature range 4)	-	°C	160	160
Thermal conductivity	DIN 52 612	W/(K.m)	0,24	0,23
Water absorption				
Moisture absorption 5) (maximum)	DIN 53 715	%	0,25	0,2
Moisture absorption 6) (saturated)	DIN 53 495	%	0,5	0,4

1) against steel, hardened and ground

P = 0.05 MPa, V = 0.6 m/sec t = 40 °C near sliding surface

2) for the temperature range from + 23°C to + 60°C

3) Empirical values with finished components without load in air, depending on type and form of heat application, long term (= months)

4) Empirical values with finished components without load in air, depending on type and form of heat application, short term (= max. 1 h)

5) In normal ambient conditions 23 °C / 50 % RH

6) In water 1 MPa = 1 N/mm<sup>2</sup> n. b. = non breaking

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