



TECHNICAL DATA SHEET PET & PET-GL (WEARLYTE®)

	Unit	Test method	PET	PET GL
Mechanical properties				
Density	g/cm ³	DIN 53 479	1.38	1.43
Tensile strength (short duration)	MPa	DIN 53 455	80	75
Modulus of elasticity in flexure (short duration)	GPa	DIN 53 457	2.6	-
Modulus of elasticity in tension (short duration)	GPa	DIN 53 457	3	2.2
Bending strength	MPa	DIN 53 452	125	-
Impact strength	kJ/m ²	DIN 53 453	n. B.	30
Notch impact strength	kJ/m ²	DIN 53 453	>4	2
Ball indentation hardness - H358/30	MPa	DIN 53 456	140	-
Sliding friction coefficient against hardened and ground steel (P=0.05 Mpa, V=0.6 m/sec., T=40 °C (near sliding surface))	-	-	0.25	0.2
Thermal properties				
Melting temperature	°C	-	255	255
Coefficient of thermal expansion in 23°C - 60°C range	10 ⁻⁵ . K ⁻¹	DIN VDE 0304	7 - 8	7 - 8
Operating temperature range (long-term)	°C	-	-20 to 110	-20 to 110
Operating temperature range (short-term) up to 60mins.	°C	-	160	160
Thermal conductivity	W/(K.m)	DIN 52 612	0.24	0.23
Moisture absorption in 23 °C / 50 % RH	%	DIN 53 715	0.25	0.2
Moisture absorption in water until saturated	%	DIN 53 495	0.5	0.4

Application

- Bushes.
- Gear wheels
- Sliding parts
- Precision bearings
- Insulators
- Cam disks

Standard Options

SHEET: Natural 2000mm x 1000mm in 2mm to 80-mm thick

ROD: Natural Ø14mm to Ø180mm in 1000mm and 3000mm lengths

ROD: Grey Ø10mm to Ø160mm in 1000mm and 3000mm lengths

TUBE also available upon request