



TECHNICAL DATA SHEET ACETAL (WEARACE®)

	Unit	Test method	POM - C
Mechanical properties			
Density	g/cm ³	DIN 53 479	1.41
Tensile strength (short duration)	MPa	DIN 53 455	65
Modulus of elasticity in flexure (short duration)	GPa	DIN 53 457	2.9
Modulus of elasticity in tension (short duration)	GPa	DIN 53 457	3
Bending strength	MPa	DIN 53 452	115
Impact strength	kJ/m ²	DIN 53 453	n. B.
Notch impact strength	kJ/m ²	DIN 53 453	>10
Ball indentation hardness - H358/30	MPa	DIN 53 456	150
Sliding friction coefficient against hardened and ground steel (P=0.05 Mpa, V=0.6 m/sec., T=40 °C (near sliding surface))	-	-	0.32
Thermal properties			
Melting temperature	°C	-	178
Coefficient of thermal expansion in 23°C - 60°C range	10 ⁻⁵ . K ⁻¹	DIN VDE 0304	9 - 10
Operating temperature range (long-term)	°C	-	-30 to 100
Operating temperature range (short-term) up to 60mins.	°C	-	140
Thermal conductivity	W/(K.m)	DIN 52 612	0.31
Moisture absorption in 23 °C / 50 % RH	%	DIN 53 715	0.2
Moisture absorption in water until saturated	%	DIN 53 495	0.8

Application

- Rollers.
- Bushes.
- Slide bearings.
- Gears, sheaves and wear pads.
- Wear pads, sprockets, spacers and blocks.
- Sprockets, spacers and blocks.
- Intricate machined parts and food processing parts.

Standard Options

SHEET: Natural food grade & Black – 2000mm x 1000mm in 1mm to 80mm thick.

ROD: Natural food grade & Black – Ø5mm to Ø300mm in 1000mm and 3000mm lengths.