



**CUT TO SIZE
plastics**

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**TECHNICAL DATA SHEET
ACETAL (POLYOXYMETHYLENE) WEARACE ®**

Mechanical properties	Standard	Unit	POM
Density	DIN 53 479	g/cm ³	1,41
Tensile strength (short duration)	DIN 53 455	MPa	65
Modulus of elasticity in flexure (short duration)	DIN 53 457	MPa	2.9
Modulus of elasticity in tension (short duration)	DIN 53 457	MPa	3
Bending strength	DIN 53 452	MPa	115
Impact strength	DIN 53 453	kJ/m ²	n. B.
Notch impact strength	DIN 53 453	kJ/m ²	>10
Ball indention hardness H _{358/30}	DIN 53 456	MPa	150
Sliding friction coefficient (dry run) 1)	-	-	0,32
Thermal properties			
Melting temperature	-	°C	178
Coefficient of linear expansion 2)	DIN VDE 0304	10 ⁻⁵ · K ⁻¹	9-Oct
Service temperature range 3)	-	°C	-30 to 100
Max. Service temperature range 4)	-	°C	140
Thermal conductivity	DIN 52 612	W/(K.m)	0,31
Water absorption			
Moisture absorption 5) (maximum)	DIN 53 715	%	0,2
Moisture absorption 6) (saturated)	DIN 53 495	%	0,8

1) against steel, hardened and ground

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)



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

6) In water

1 MPa = 1 N/mm²

Disclaimer:

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400.

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