

Universeel materiaal voor precisieonderdelen en heeft een lage vochtopname



ISO	POM polyoxymethylene; polyacetal; polyformaldehyde
Shape	Rod
Color	color_nat
Temperature Range	-50 and 100 °C
tbl_temp_melting	165 °C
Density	1410 kg/m3
Hardness	84 Rockwell M
Elongation at break	40 %
Tensile strength	66 N/mm2

Material information

Very high dimensional stability so suitable for precision parts High mechanical strength, stiffness and hardness. Very high resilience. High impact resistance at lower temperatures. Absorbs less moisture than, for example, Nylon Good sliding properties and wear resistance This is an unfilled polyacetal copolymer type. The copolymer has good resistance to hydrolysis, strong bases and thermo-oxidative degradation.

Usage examples

Manufactures precision mechanical parts and is used for such things as gears and rudder bearings.

Processing

Excellent machinability on (automatic) lathes
Measurement tolerance 2768-mK

Petrol	Water	Wear resistance
Moderate	Good	Moderate

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
68000050	POM Ertacetal C naturel staf 5 mm		1.000
68000060	POM Ertacetal C naturel staf 6 mm		1.000
68000080	POM Ertacetal C naturel staf 8 mm		1.000
68000100	POM Ertacetal C naturel staf 10 mm		1.000
68000120	POM Ertacetal C naturel staf 12 mm		1.000
68000150	POM Ertacetal C naturel staf 15 mm		1.000
68000160	POM Ertacetal C naturel staf 16 mm		1.000
68000200	POM Ertacetal C naturel staf 20 mm		1.000
68000220	POM Ertacetal C naturel staf 22 mm		1.000
68000250	POM Ertacetal C naturel staf 25 mm		1.000
68000300	POM Ertacetal C naturel staf 30 mm		1.000
68000320	POM Ertacetal C naturel staf 32 mm		1.000



68000360	POM Ertacetal C naturel staf 36 mm	1.000
68000400	POM Ertacetal C naturel staf 40 mm	1.000
68000450	POM Ertacetal C naturel staf 45 mm	1.000
68000500	POM Ertacetal C naturel staf 50 mm	1.000
68000560	POM Ertacetal C naturel staf 56 mm	1.000
68000600	POM Ertacetal C naturel staf 60 mm	1.000
68000650	POM Ertacetal C naturel staf 65 mm	1.000
68000700	POM Ertacetal C naturel staf 70 mm	1.000
68000750	POM Ertacetal C naturel staf 75 mm	1.000
68000800	POM Ertacetal C naturel staf 80 mm	1.000
68000850	POM Ertacetal C naturel staf 85 mm	1.000
68000900	POM Ertacetal C naturel staf 90 mm	1.000
68000950	POM Ertacetal C naturel staf 95 mm	1.000
68001000	POM Ertacetal C naturel staf 100 mm	1.000
68001100	POM Ertacetal C naturel staf 110 mm	1.000
68001200	POM Ertacetal C naturel staf 120 mm	1.000
68001250	POM Ertacetal C naturel staf 125 mm	1.000
68001300	POM Ertacetal C naturel staf 130 mm	1.000
68001400	POM Ertacetal C naturel staf 140 mm	1.000
68001500	POM Ertacetal C naturel staf 150 mm	1.000
68001600	POM Ertacetal C naturel staf 160 mm	1.000
68001700	POM Ertacetal C naturel staf 170 mm	1.000
68001800	POM Ertacetal C naturel staf 180 mm	1.000
68002000	POM Ertacetal C naturel staf 200 mm	1.000
68002100	POM Ertacetal C naturel staf 210 mm	1.000
68002200	POM Ertacetal C naturel staf 220 mm	1.000
68002500	POM Ertacetal C naturel staf 250 mm	1.000
68002800	POM Ertacetal C naturel staf 280 mm	1.000
68003000	POM Ertacetal C naturel staf 300 mm	1.000
68003200	POM Ertacetal C naturel staf 320 mm	1.000

Water absorption

The extent to which the product absorbs water when tested for 24 hours in water at 23 degrees in accordance with ISO 63.

Immersion Saturation

0,240 % 0,800 %



Thermal properties

[tbl_thermal_explainer](#)

[tbl_thermische_geleiding](#) [tbl_lin_uitzet_2360](#) [tbl_lin_uitzet_23100](#) [tbl_temp_deflection_load](#)

0,310 W/(K.m) 110 x 10⁻⁶ m/(m.K) 125 x 10⁻⁶ m/(m.K) 100 °C

Mechanical properties

[tbl_mechanical_explainer](#)

[tbl_tension_norm](#) [tbl_tension_stress_yield](#) [tbl_tension_strain_yield](#) [tbl_tension_strain_break](#) [tbl_modulus_elasticity](#)

ISO 527-1/-2 66 MPa 15 % 40 % 3.000 MPa

Impact tests

[tbl_charpy_izod_explainer](#)

[tbl_charpy_impact](#) [tbl_charpy_unnotched](#) [tbl_charpy_notched](#) [tbl_izod_impact](#) [tbl_izod_impact_notched](#)

ISO 179-1 KJ/m² 8 KJ/m² ISO 179-1 0

Dynamische Coefficient of Friction

[tbl_dcf_explainer](#)

[tbl_dcf](#) [tbl_dcf_min](#) [tbl_dcf_max](#) [tbl_dcf_wear](#)

ISO 179-1 0,300 0,450 45 µm/km

Electrical properties

Tests related to the electrical resistivity and conductivity of the material.

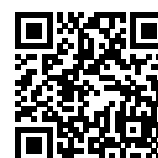
Electric strength **Volume resistance** **Surface resistance**

IEC 60243-1 20 kV/mm IEC 60093 >10E 14 Ohm.cm IEC 60093 >10E 13 Ohm/sq.

Related materials

Code	Group Name	Shape	Color
708	POM Ertacetal C blauw staf	Rod	color_bla50
725	POM Ertacetal C buis zwart	shape_65	Black
607	POM Ertacetal C naturel	Sheet	color_nat
680	POM Ertacetal C naturel staf	Rod	color_nat
608	POM Ertacetal C zwart	Sheet	Black
681	POM Ertacetal C zwart staf	Rod	Black

We provide product information as known by us with great care. We cannot accept any liability for errors and/or inaccuracies and/or incompleteness. Please note that our products are intended for professional use only. For high impact applications and/or combinations of limit values we always recommend to have the properties specific to that situation verified by us. If there are multiple specifications for a product we will use the standard of 2mm or the closest



specification.

