

Universal material for precision parts and has low moisture absorption

ISO	POM polyoxymethylene; polyacetal; polyformaldehyde
Shape	Sheet
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)
60700005	POM Ertacetal C naturel 0,5 mm		
60700008	POM Ertacetal C naturel 0,8 mm		
60700010	POM Ertacetal C naturel 1 mm		
60700015	POM Ertacetal C naturel 1,5 mm		
60700020	POM Ertacetal C naturel 2 mm		
60700025	POM Ertacetal C naturel 2,5 mm		
60700030	POM Ertacetal C naturel 3 mm		
60700040	POM Ertacetal C naturel 4 mm		
60700050	POM Ertacetal C naturel 5 mm		
60700060	POM Ertacetal C naturel 6 mm		
60700080	POM Ertacetal C naturel 8 mm		
60700100	POM Ertacetal C naturel 10 mm		
60700120	POM Ertacetal C naturel 12 mm		



60700150	POM Ertacetal C naturel 15 mm		
60700160	POM Ertacetal C naturel 16 mm		
60700180	POM Ertacetal C naturel 18 mm		
60700200	POM Ertacetal C naturel 20 mm	1.000	2.000
60700250	POM Ertacetal C naturel 25 mm		
60700300	POM Ertacetal C naturel 30 mm		
60700350	POM Ertacetal C naturel 35 mm		
60700400	POM Ertacetal C naturel 40 mm		
60700450	POM Ertacetal C naturel 45 mm		
60700500	POM Ertacetal C naturel 50 mm		
60700600	POM Ertacetal C naturel 60 mm		
60700700	POM Ertacetal C naturel 70 mm		
60700800	POM Ertacetal C naturel 80 mm		
60700900	POM Ertacetal C naturel 90 mm		
60701000	POM Ertacetal C naturel 100 mm		
60701200	POM Ertacetal C naturel 120 mm		
60701500	POM Ertacetal C naturel 150 mm		

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
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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
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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/m ²	8 KJ/m ²	ISO 179-1	0
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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
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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.

