

Ertalyte is suitable for heavy-duty, wear-resistant precision parts

ISO	PET poly(ethylene terephthalate)
Shape	Sheet
Color	Black
Temperature Range	-20 and 100 °C
tbl_temp_melting	245 °C
Density	1390 kg/m ³
Hardness	96 Rockwell M
Flame Resistance (UL 94)	HB

Material information

Ertalyte® PET is highly dimensionally stable and suitable for heavily loaded precision parts. In addition, it is resistant to various chemicals.

Usage examples

For example, as plain bearings
Measurement tolerance 2768-mK

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
62900100	PET Ertalyte zwart 10 mm		
62900150	PET Ertalyte zwart 15 mm		
62900200	PET Ertalyte zwart 20 mm		
62900250	PET Ertalyte zwart 25 mm		
62900400	PET Ertalyte zwart 40 mm		
62900500	PET Ertalyte zwart 50 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

0,160 % 0,500 %

Thermal properties

[tbl_thermal_explainer](#)

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

0,290 W/(K.m) 60 x 10⁻⁶ m/(m.K) 80 x 10⁻⁶ m/(m.K) 80 °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 90 MPa 4 % 15 % 3.500 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	50 KJ/m ²	2 KJ/m ²	ISO 179-1	2
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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	0,150	0,250	0 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 22 kV/mm	IEC 60093 >10E 14 Ohm.cm	IEC 60093 >10E 13 Ohm/sq.

Related materials

Code	Group Name	Shape	Color
628	PET Ertalyte naturel	Sheet	color_nat
629	PET Ertalyte zwart	Sheet	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.

