

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

ISO	PET poly(ethylene terephthalate)
Shape	Sheet
Color	<a href="#">color_nat</a>
Temperature Range	-20 and 100 °C
<a href="#">tbl_temp_melting</a>	245 °C
Density	1390 kg/m <sup>3</sup>
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

### Wear resistance

Excellent

### Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
62800040	PET Ertalyte naturel 4 mm		
62800080	PET Ertalyte naturel 8 mm		
62800100	PET Ertalyte naturel 10 mm		
62800120	PET Ertalyte naturel 12 mm		
62800150	PET Ertalyte naturel 15 mm		
62800160	PET Ertalyte naturel 16 mm		
62800200	PET Ertalyte naturel 20 mm		
62800250	PET Ertalyte naturel 25 mm		
62800300	PET Ertalyte naturel 30 mm		
62800350	PET Ertalyte naturel 35 mm		
62800400	PET Ertalyte naturel 40 mm		
62800500	PET Ertalyte naturel 50 mm		
62800600	PET Ertalyte naturel 60 mm		
62800700	PET Ertalyte naturel 70 mm		
62800800	PET Ertalyte naturel 80 mm		
62801000	PET Ertalyte naturel 100 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](#)

<a href="#">tbl_thermische_geleiding</a>	<a href="#">tbl_lin_uitzet_2360</a>	<a href="#">tbl_lin_uitzet_23100</a>	<a href="#">tbl_temp_deflection_load</a>
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](#)

<a href="#">tbl_tension_norm</a>	<a href="#">tbl_tension_stress_yield</a>	<a href="#">tbl_tension_strain_yield</a>	<a href="#">tbl_tension_strain_break</a>	<a href="#">tbl_modulus_elasticity</a>
ISO 527-1/-2	90 MPa	4 %	15 %	3.500 MPa

## Impact tests

[tbl\\_charpy\\_izod\\_explainer](#)

<a href="#">tbl_charpy_impact</a>	<a href="#">tbl_charpy_unnotched</a>	<a href="#">tbl_charpy_notched</a>	<a href="#">tbl_izod_impact</a>	<a href="#">tbl_izod_impact_notched</a>
ISO 179-1	50 KJ/m <sup>2</sup>	2 KJ/m <sup>2</sup>	ISO 179-1	2

## Dynamische Coefficient of Friction

[tbl\\_dcf\\_explainer](#)

<a href="#">tbl_dcf</a>	<a href="#">tbl_dcf_min</a>	<a href="#">tbl_dcf_max</a>	<a href="#">tbl_dcf_wear</a>
ISO 179-1	0,150	0,250	0 µm/km

## 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	<a href="#">color_nat</a>
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.*

