APSOplast® PET-C



Engineering plastics technology Technical Data Sheet

Application purpose and characteristics

The specific properties of PET-C make this material particularly suited for mechanical precision and wearing parts. High mechanical strength, rigidity, and hardness. Very good creep resistance. Low, constant coefficient of friction. Very high wear resistance (comparable to or even higher than polyamides).Very high dimensional stability (better than that of polyacetal).

Material name, short description

Material name, based on technical standards

Density

Color

Compound code

Mechanical properties

Modulus of elasticity & tension 1	3400 N/mm² ISO 527
Tensile strength	80 N/mm² ISO 527
Yield stress	80 N/mm² ISO 527
Elongation at rupture	10 % ISO 527
Hardness test value	81 Shore D
Impact strength	#ErrorkJ/m² ISO 179-1eU Charpy, 23 °C
Notch impact strength	3.40 kJ/m² ISO 179-1/1eA

PET-C

Polyethylene terephthalate

1.36 g/cm³ black

PET-C 00.003-01

Thermal attributes

100 °C 20000h, 50% tensile strength
160 °C
60 * 10⁻⁰ K⁻¹ ISO 11359-2
255 °C ISO 3146 Method A
80 °C ISO 75 Method A

Electrical attributes

Comparative tracking index	≥ 450 KA IEC 60112 Level KA / KB
Dielectric dissipation factor 1	0.02 IEC 60250 1 MHz
Dielectric constant 1	3.3 IEC 60250 1 MHz
Dielectric strength 1	20 kV/mm IEC 60243
Volume resistivity	10 ¹⁶ Ω*cm DIN IEC 60093

Other attributes Water absorption

-0.5 % ISO 62 23 °C

Approvals / Compliance

Food & Beverage

EC No. 1935/2004 incl. last amendments



In compliance with RoHS and REACH directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.