PET

Polyethylene terephthalate

DESIGNATION	CHEMICAL NAME	TYPE
PET	Polyethylene terephthalate	Thermoplastic

General description

PET is supplied in two main variants:
Clear amorphous PET (PETG), which is well suited to thermoforming.
Semi-crystalline PET (PETP), which is well suited to machined parts.

Processing

PET is available as semi-finished products in the form of sheets, rods and hollow rods.
The material is easy to thermoform (PETG) and is also well suited to machining (PETP).
Bonding is possible.

Applications

Signs and displays.
Machine guards.
Machined parts: plain bearings, gears, precision parts.

Special features

Dimensionally stable.
Somewhat notch sensitive (limited notched impact strength).
Stiff and hard, withstands heavy loads.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	1.27-1.37
Tensile strength	DIN 53455	N/mm^2	41-80
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	1700-3000
Elongation at break	DIN 53455	%	60-200
Service temperature, continuous	-	°C	-20/+120
Thermal expansion	ASTM D 896	mm/m/°C	0.05-0.07
Flammability	UL 94		V0

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

Opido Plast AB
Industrigatan 7, 341 50 Lagan, Sweden · Part of SP Group
+46 372-668 50 · info@opido.se
opido.se