

PETG



POLYETHYLENE TEREPHTHALATE

Material description

PET G is a crystal - clear, transparent thermoplastic which is easy to thermoform. PET G has very good chemical resistance, is flame retardant and is characterised by high impact strength.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	1.27	g/cm3
Water absorbtion	DIN EN ISO 62	0.2	%
Sliding friction			
Abrasion resistance			

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	52	MPa
Elongation at break	DIN EN ISO 527	4.5	%
Tensile modulus of elasticity	DIN EN ISO 527	1900	MPa
Notched impact strength	DIN EN ISO 527	10	kJ/m2
Ball indentation hardness	DIN EN ISO 2039-1	97	MPa

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.2	W/(m*K)
Heat capacity	DIN 52612-1	1.1	kJ/(kg*K)
Coefficient of thermal expansion	DIN 53752	70	10 ⁻⁶ *K ⁻¹
Operating temperature short term		70	°C
Operating temperature long term		-40 bis 65	°C
Heat deflection temperature	DIN EN ISO 75 / A	8	°C
Flammability	UL 94, 3 mm	HB	

Electrical properties	Test method	Value	Unit
Volume resistivity	IEC 60093	10 ¹⁶	Ω * cm
Surface resistivity	IEC 60093	10 ¹³	Ω * cm
Dielectric strength	IEC 60243	16	kV/mm

These technical data have been determined as average values by our suppliers from many individual measurements. In all measurements, the test specimens were tested in the dry state. We pass on the data with reservation. The table does not claim to be complete or correct. Material technology is subject to constant further development. No rights or guarantees can be derived from it. Own tests are necessary because the environmental and operating conditions (humidity, temperature, mechanical forces, radiation and chemicals, etc.) set limits in the application.