

Technical Data Sheet



PETG

Polyethylenterephthalat

General properties	Test method	Unit	Guideline value
Density	DIN EN ISO 1183	g / cm ³	1,27
Flammability DIN 4102	General test certificate issued by the building authorities (1 - 8 mm)		B1 schwerentflammbar
Light transmission	(Plate 3 mm)	%	90
Food conformity according to EU 10/2011			✓
Food conformity according to FDA			✓
Physiological harmlessness according to BFR			✓
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	52
Elongation at yield stress	DIN EN ISO 527	%	4,5
Impact strength	DIN EN ISO 179	kJ / m ²	ohne Bruch
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2000
Notched impact strength charpy	DIN EN ISO 179-1eA	kJ / m ²	7,5
Shore hardness	DIN EN ISO 868	scale D	78
Dielectric strength	DIN IEC 60243-1	kV/mm	16
Ball indentation hardness	DIN EN ISO 2039-1	MPa	97
Thermal properties			
Operating temperature long term		°C	-40 / +65
Heat up time	min/mm plate thickness (dwell time in oven)	°C	3 - 4
Mean thermal Coefficient of linear expansion	DIN EN ISO 11359-2	K ⁻¹	0,7 * 10 ⁻⁴
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	77
Electrical properties			
Surface resistivity	IEC 60093	Ω	10 ¹³
Dielectric strength	IEC 60243-1	kV / mm	16

The data are guide values for the respective material and may vary depending on the processing method and specimen production. As a rule, these are average values from measurements on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured exclusively by compression molding, the measurements are usually made on sheets 20 mm thick. Deviations are possible if sheets in these thicknesses are not available. In the case of laminated sheets, the technical characteristic values refer to the unlaminated base sheets. The data cannot be readily transferred to other product types (such as tubes, solid bars) of the same material or to the further processed products. The suitability of materials for a specific application must be checked by the processor or user. The technical characteristic values are merely a planning aid. In particular, they do not represent guaranteed properties.