

Material characteristics/Technical data

Product: Polyethylenterephthalat | PETG extruded

General properties	Value	Unit	Test method /standard
Density	1,27	g/cm ³	ISO 1183
Flammability	B1 flame retardant		DIN 4102
Water absorption	< 0,1	%/24 h	DIN 53495 method C
Optical properties			
Light transmission	90	%	at 3mm
Mechanical properties			
Yield stress	52	MPa	DIN EN ISO 527
Elongation at break	80	%	DIN EN ISO 527
Tensile modulus of elasticity	1900	MPa	DIN EN ISO 527
Notched impact strength (charpy)	10	kJ/m ²	DIN EN ISO 179
Ball indentation hardness	97	N/mm ²	DIN EN ISO 2039-1
Shore hardness	78	scale D	ISO 868
Thermal properties			
Coefficient of middle thermal expansion	0,7*10 ⁻⁴	K ⁻¹	DIN 53752
Service temperature, long term	-	°C	
Service temperature, short term	-	°C	
Electrical properties			
Specific surface resistivity	10 ¹⁶	Ω*cm	DIN IEC 167
Surface resistivity	10 ¹⁶	Ω	DIN IEC 93
Dielectric strength	16	kV/mm	VDE 0303-21

The data mentioned in this brochure are average values ascertained by current statistical returns and tests. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.