

Technical Data Sheet



PE DIBT Polyethylen

General properties	Test method	Unit	Guideline value
Fire behaviour	DIN 4102	B2	normal entflammbar
Density	DIN EN ISO 1183	g / cm ³	0,950
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	23
Elongation with tensile stress	DIN EN ISO 527	%	9
E-Modulus	DIN EN ISO 527	MPa	1.100
Charpy notched impact strength	DIN EN ISO 179-1eA	kJ/m ²	16
Ball indentation hardness	DIN EN ISO 2039-1	MPa	43
Shore hardness	DIN EN ISO 868	scale D	65
Thermal properties			
Mean thermal expansion coefficient coefficient of linear expansion	DIN EN ISO 11359-2	K ⁻¹	1,8 * 10 ⁻⁴
Thermal conductivity	DIN EN 12667	W/m * K	0,38
Service temperature long term	Average value	°C	-50 / +80
Electrical properties			
Surface resistance	IEC 60093	Ω	≥10 ¹³

The data are guide values for the respective material and may vary depending on the processing method and test 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 produced exclusively by pressing, the measurements are generally taken on sheets 20 mm thick. Deviations are possible if sheets in these thicknesses are not available. For laminated boards, the technical characteristics refer to the unlaminated base boards. The data cannot simply be transferred to other product types (e.g. pipes, solid rods) of the same material or 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.