

Polyethylene HDPE (PE300)

Technical Details

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	0.95
Maximum service temp. Upper temp limit - short term	°C		80
Lower temp limit	°C		-50
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	DIN EN ISO 527	23
Elongation at yield	%	DIN EN ISO 527	9
Unnotched Impact strength	kJ/m ²	DIN EN ISO 179	no break
Notch impact strength	kJ/m ²	DIN EN ISO 179	16
Ball indentation / Rockwell hardness	MPa	DIN EN ISO 2039-1	43
Shore-D		DIN EN ISO 868	65
Tensile modulus of elasticity	MPa	DIN EN ISO 527	1100
Thermal	Unit	Test Method	Result
Coefficient of linear thermal expansion 23°C - 100°C	m/(m.K)	ISO 11359-2	1.8 x 10 ⁻⁴
Thermal conductivity at 23°C	W/mK	DIN EN 12667	0.38
Electrical	Unit	Test Method	Result
Surface resistivity	Ω	DIN IEC 60093	≥10 ¹³
Additional Data	Unit	Test Method	Result
Food compliance - FDA		FDA	yes
Food compliance - EU		EU	yes
Flammability	Unit	Test Method	Result
Fire performance		DIN 4102	B2

All information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers