

PRODUCT DATA SHEET

PEHD 1000

RoHSII: The material is in compliance with
EU directive 2011/65/EU (RoHS II)

Color: Neutral/Green/Black

Properties	Testmethods	Unit	Value
Description	DIN EN ISO 1043-1	-	PE-HMW
Specific gravity	DIN EN ISO 1183-1	g/cm ³	~ 0,93
Mean molecular weight	determined by viscometry	Mio.g/mol	~ 5 - 6
Water absorption at 23° C	DIN EN ISO 62	%	< 0,01
Mechanical properties at standard atmosphere ISO 291-23/50			
Abrasion (sand slurry test)	DIN EN ISO 15527	%	≥ 90
Yield stress	DIN EN ISO 527-1	MPa	≥ 18 - 20
Ult. elongation	DIN EN ISO 527-1	%	> 300
Modulus of elasticity (tensile)	DIN EN ISO 527-1	MPa	~ 700
Impact strength	DIN EN ISO 179-1	kJ/m ²	No break
Impact strength - charpy	DIN EN ISO 179-1	kJ/m ²	> 120
Shore-hardness D	DIN EN ISO 868	-	~ 63
Ball indentation hardness	DIN EN ISO 2039-1	MPa	~ 38
Thermal properties			
Thermal conductivity at 23°C	ISO 52612	W/mK	> 0,40
Coefficient of expansion (between 23°C - 80°C)	ISO 11359-2	°C-1	~ 1,5-2·10 ⁻⁴
max. service temperature (dependent on mechanical stress)	short term	°C	~ 120
	long term	°C	~ - 200 /+ 80
Vicat-softening temperature	DIN EN ISO 306	°C	~ 80
Flammability acc. to UL94 - test thickness 3/6 mm	-	-	HB
Electrical properties at standard atmosphere			
Dielectric strength	IEC 60243-1	KV/mm	~ 40
Insulation resistance	IEC 60093	Ω · cm	> 10 ¹²
Surface resistance	IEC 60093	Ω	> 10 ¹²
Physical properties			
Approved acc. FDA 21 CFR §177.1520 and FDA 21 CFR §178.3297// EG 1935/2004, EG 2023/2006 and EU 10/2011 on request			

The data mentioned in this data sheet is after our knowledge correct, but we reserve the right to make changes without notice.

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