Weerg.

Polyethylene

PE1000 - HDPE - Polythene

Industry-leading thermoplastic polymer with outstanding chemical resistance, electrical insulation and tensile strength.



Material properties

Density	ISO 1183	0,94	g/cm³
Water absorption at saturation	ISO 62	0,01	%
Hygroscopicity	ISO 62	0	%
Tensile strength	ISO 527	18	MPa
Elongation at break	ISO 527	> 50	%
Yield strength	ISO 527	18	MPa
Elastic modulus	ISO 527	750	MPa
Flexural strength	ISO EN 178	17	MPa
Resilience	ISO 179	No break	kJ/m²
Hardness	ISO 868	61 D	Shore
HDT 0.45 MPa	ISO 75	70	°C
HDT 1.8 MPa	ISO 75	42	°C
Vicat softening temperature	ISO 306	80	°C
Melting temperature	ISO 11357	130-135	°C
Flammability	UL94	HB	

Maximum dimensions 500x500x90 mm (19.7x19.7x3.5 in)

Tolerances

ISO 2768-1 medium (m) class

Applications

Used in numerous industries due to its excellent tribological properties and impact resistance

Information contained in this data sheet is up-to-date and correct as at the date of issue. As Weerg cannot control or anticipate the conditions under which this product may be used, each user should review the information in the specific context of the planned use. To the maximum extent permitted by law, Weerg will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implies mandatory by law.



Thermal conductivity (20°C)	DIN 52612	0,4	W/mK
Volumic electrical resistivity	IEC 60093	> 10^14	Ω*m

Information contained in this data sheet is up-to-date and correct as at the date of issue. As Weerg cannot control or anticipate the conditions under which this product may be used, each user should review the information in the specific context of the planned use. To the maximum extent permitted by law, Weerg will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implies mandatory by law.

