

Raw Material High-Density Polyethylene (HDPE)

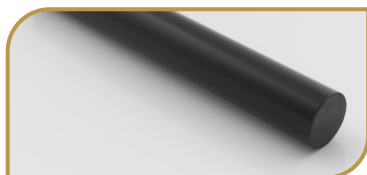
General Properties	Test Method	Unit	Value
Density	DIN EN ISO 1183	g/cm ³	0.96
Water Absorption in air 50% r.h.	DIN 53715	%	0
Absorption 23-C In Water-Saturation	DIN 53495	%	0.01
Food Compliance	-	FDA/BfR	YES
UV Stability	-	-	YES
Mechanical Properties			
Tensile Modulus	DIN 53455	MPa	1100
Elongation At Break	DIN 53453	%	>250
Tensile Modulus Of Elasticity	DIN 53456	N/mm ²	1100
Compression Test 1% Strain 1000h	DIN 53444	N/mm ²	3
Notched Impact Strength (Charpy)	DIN 53455	KJ/mm ²	NO BREAK
Ball Indentation Hardness	DIN 53453	N/mm ²	40
Shore Hardness (D)	DIN 53456	Scale D	60
Thermal Properties			
Melting Temperature	ISO 3146	°C	135
Thermal Conductivity	DIN 52612	W/km	0.39
Deformation Temperature HDT	DIN 53461	°C	45
Coefficient Of Linear Thermal Expansion	DIN 53752	K ⁻¹	1.5-2x10 ⁻⁴
Service Temperature, Long Term	Average	°C	80
Service Temperature, Short Term (MAX)	Average	°C	90
Minimum Operating Temperature	Average	°C	-50
Flammability	UL 94 (3-6mm thickness)	-	HB
Electrical Properties			
Dielectric Constant at 1 MHz	DIN 53483	-	2.3
Dielectric Dissipation Factor (1 MHz)	DIN 53483	-	0.0006
Volume Resistivity	DIN 53482	Ωcm	10 ¹²
Dielectric Strength	DIN 53481	KV/mm	30

Applications:

- Pipe Flanges
- Pipe Reducers
- Tanks
- Lifting Lugs
- Bulk Solid Bins & Hoppers

Characteristics:

- UV Stabilised
- Fracture Resistant
- Economically Priced
- Versatile



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