

HDPE Plastic DATA SHEET

Mechanical Property

Property	Unit	HDPE	HDPE Anti Static	HDPE Conductivity
Density	g/m ³	0.96	0.95	1.01
Long Term Working Temperature	°C	90		
Yield Stretch Strength	Mpa		22	30
Beaking Stretch Strength	Mpa	27	20	25
Beaking Stretch Rate	%	500	150	25
Bending Modulus	Mpa	1370	750	900
Hardness	Mpa			
Impact Strength	KJ/m ²		20	83

Thermal Property

Melting Point	°C	120.00		
Heat Deflection Temperature	°C			
Max Operating Temperature (Short)	°C	110.00		
Thermal Conductivity	W(K-M)			
Coefficient Of Linear Expansion	10-5-1/K	155x10 ⁻⁶		

Electrical Features

Dielectric Constant	—			
Dielectric Loss Constant	—			
Volume Resistance	Ω.cm	10 ¹⁶	10 ⁸	10 ⁴
Surface Resistance	Ω	10 ¹⁵	10 ⁸	10 ⁴
Dielectric Streng	KV-mm	2.4		

Chemical Features

Balance Water Absorption	%	0.1	+	+
Acid Resistance		+	+	+
Alkali Resistance		+	+	+
Acid and Alkali Water Resistance		+	+	+
Chlorine with acid and Alkali Resistance		+	+	+
Aromatic Compound Resistance		+	0	0
Ketone Resistance		0	+	+
Hot Water Resistance		+		

Other Property

Combustibility		HB	HB	HB
Adhesion		0.00	0.00	0.00
Non-toxic Harmless Sexual		+	+	+
Friction Coefficient		0.3	0.28	0.28

Ultraviolet UV Resistance				

Remark:

1. "+" mean anti,"—"mean none,"0"mean it depends on reality testing conditions.
2. Above data are provided by the raw material suppliers, not guarantee the uniqueness.
3. Above data can not be regarded as the additional term for the contract
4. These products we mentioned are not suitable for medicine and tooth transplantation