

HDPE datasheet				
-	Item	Standard	unit	value
Mechanical Properties	Density	ASTM D792	g/cm3	0.96
	Tensility resistance	ASTM D638	Mpa	30
	Break elongation rate	ASTM D638	%	500
	Bending strength	ASTM D790	Mpa	35
	Bending modulus	ASTM D790	Mpa	1370
	Shore D hardness	ASTM D2240	D	75
	Impact strength	ASTM D256	J/M	80
Calorific Performance	Melting temperature	DSC	°C	120
	Heat deform temperature	ASTM D648	°C	80
	long term working temperature	-	°C	90
	short term working temperature	-	°C	110
	Expansion Coefficient	ASTM D696	10-5-1/K	15.5
Electricity Performance	Dielectrical Strength	ASTM D150	KV-mm	2.4
	Volume Resistance	ASTM D257	Ω .cm	10 ¹⁴
	Surface Resistance	ASTM D257	Ω	10 ¹⁶
Chemical Properties	Equilibrium water	23°C 60% RH	%	0.01
	Acid resistance	23°C 60% RH		+
	Kali resistance			+
	Acid and Soda resistance			+
	Chlorine carbonic acid resistance			+
	Aromatic chemical compound resistance			+
	Copper resistance	23°C 60% RH		0
	Hot water resistance	23°C 60% RH		+
Others	Combustibility	UL 94		HB
	Cementation	-		0
	Non-toxic harmless	EEC 90/128 FDA		+
	Friction coefficient	DIN 53375		0.3
	Anti-ultraviolet ray	-		0
<p>1) The above data are tested by the professionals. To a great extent, these data can be used directly, but we can not make sure that they can be applied to any field. There will be some difference between these data and the properties of the products made from the raw material.</p> <p>2) + = yes 0 = depend on - = No</p>				