

## HDPE DATA SHEET

Raw Material Description			
Standard Guide:	Extrusion Grade	Appearance Colour	White
<b>Application:</b>	Processing materials for sheet, rod, strips, tube. Used for extruding packaging film, rope, woven bag, fishing net, water pipe; Injection molding low-grade daily necessities and shell, non-load bearing components, plastic box, recycling box; Extrusion nblow containers, hollow products, bottles.		
<b>Properties:</b>	It has good heat and cold resistance, good chemical stability, high rigidity and toughness, good mechanical strength. Dielectric properties, environmental stress cracking resistance is also good. Hardness, tensile strength and creep property are better than that of idpe. Good wear resistance, electrical insulation, toughness and cold resistance.		

Technical Datasheet				
Property Item	Test Conditions	Testing Method	Testing Data	Unit
<b>Physical Property</b>				
Density	---	ASTM D792	0.95	g/cm3
Shrinkage	---	ASTM D955	2-5	%
Water Absorption	24 hrs	ASTM D570	0	%
Flammability Class	---	UL 94	HB	Class
UV Resistance Linearity (U.V)	---	---	+	~
Non-Toxic and Harmless	---	EEC 90/128FDA	+	~
<b>Mechanical Property</b>				
Tensile Strength	---	ASTM D638	22-30	MPa
Tensile Strength at Break	---	ASTM D638	30	Mpa
Elongation at Break	---	ASTM D638	500	%
Hardness – Rockwell	---	ASTM D785	40	R (Scale)
Hardness – Shore D	---	ASTM D2240	65	D
Flexural Modulus	---	ASTM D790	1370	Mpa
Coefficient of Friction	For No.45 steel, dry friction	ASTM D1894	0.2	---
Impact Strength (notched)	---	ASTM D256	3	Ft-lb/in
<b>Thermal Property</b>				
Melting Temperature	---	ASTM D2133	120	°C
Max. Working Temperature (Short Time)	---	UL746B	110	°C
Thermal Deformation	1.86Mpa	ASTM D648	78	°C

<b>Temperature</b>				
<b>Max. Working Temperature (Long Time)</b>	---	UL746B	90	°C
<b>Thermal Conductivity</b>	23°C	ASTM C177	0.40	w/(k-m)
<b>Coefficient Linear Thermal Expansion</b>	---	ASTM D696	12-13	X 10 <sup>-5</sup> k-1
<b>Electrical Property</b>				
<b>Dielectric Constant</b>	---	ASTM D150	2.35	10 <sup>5</sup> Hz
<b>Dielectric Loss Coefficient</b>	---	ASTM D150	0.003	10 <sup>5</sup> Hz
<b>Volume Resistivity</b>	---	ASTM D257	10 <sup>16</sup>	Ω*cm
<b>Surface Resistivity</b>	---	ASTM D257	10 <sup>15</sup>	Ω
<b>Dielectric Strength</b>	---	ASTM D149	2.4	KV-mm
<b>Chemical Property</b>				
<b>Acid Resistance</b>	---	23°C, 60% RH	+	---
<b>Alkali Resistance</b>	---		+	---
<b>Resist Acid and Alkali Water</b>	---		+	---
<b>Resistance to Aromatic Compounds</b>	---		+	---
<b>Copper Resistance</b>	---	23°C, 60% RH	0	---
<b>Water Resistance</b>	---	23°C, 60% RH	+	---
NOTE: 1g/cm <sup>3</sup> = 1000kg/cm <sup>3</sup> , 1Mpa = 1N/mm <sup>2</sup> , 1KV/mm = 1MV/m				
<b>Statement:</b>				
1: '+' for resistance, '0' for it depends				
2: The above data cannot be added to the contract				
3: The above data are obtained according to the raw material test, but the uniqueness of the data is not guaranteed, and for reference and comparison purposes only, they should NOT be used as a basis for design specifications or quality control.				

## HDPE SHEETS WEIGHT TABLE

Thickness	Size	Colour (Natural/White)	Weight (LBS)
3mm	48" x 96" (4ft x 8ft)	Natural	24
4.5mm	48" x 96" (4ft x 8ft)	Natural	36
6mm	48" x 96" (4ft x 8ft)	Natural	48
10mm	48" x 96" (4ft x 8ft)	Natural	72
12mm	48" x 96" (4ft x 8ft)	Natural	96
16mm	48" x 96" (4ft x 8ft)	Natural	120
20mm	48" x 96" (4ft x 8ft)	Natural	151
25mm	48" x 96" (4ft x 8ft)	Natural	187
32mm	48" x 96" (4ft x 8ft)	Natural	241
40mm	48" x 96" (4ft x 8ft)	Natural	300
50mm	48" x 96" (4ft x 8ft)	Natural	377
75mm	48" x 96" (4ft x 8ft)	Natural	564

*\*Available in 4ft x 10ft and 5ft x 10ft. May require MOQ and lead time*

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