LAXMI™ Group
ISO 9001:2015

HDPE

Sheets

High Density Polyethylene offers excellent sliding properties and abrasion/wear resistance due to its low coefficient of friction. HDPE Sheets are tough and impact resistant, even at low temperature, it is lightweight and easy to weld. It has an almost waxy feel to it and is pretty good at being a low friction wear strip material and is used probably more than any other plastic as a wear strip on conveyors or production lines of huge companies. it is a FDA Approved material of the highest quality with excellent impact resistance. HDPE has high tensile strength, low moisture absorption and is chemical and corrosion resistant.

Rods

Colors:
Black / Natural / Customised

Characteristics

- Good welding properties
- Chemical Corrosion Resistance
- Abrasion resistance & electrical properties
- Good impact strength

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Performance and test conditions	Test Method	Unit	Typical Values
Mechanical properties			
Notched impact strenght of cantilever beam, 23 C°	ASTM D256	J/m	80
Yield tensile strenght,23 C°, 50mm/min	ASTM D638	Mpa	30
Elongation at break, 23 C°,50mm/min	ASTM D638	%	500
The bending strenght, 23 C°,2mm/min	ASTM 790	Map	35
Bending modulus, 23 C°,2mm/min	ASTM 790	Map	1375
shore hardness D	ASTM D2240	-	75
The Density	ISO 1183	g/cm^3	0.96
Thermal Performance			
Thermal deformation temperature (HDT) (0.45Mpa)	ISO 75	C°	80
Melting point	-	C°	120
Long term operating temperature	-	C°	90
Short-term operating temperature	-	C°	110
Thermal conductivity	DIN 52612-1	W/(K-M)	-
Linear expansion coefficient	ASTM D696	10-5-1/K	15.5
Electrical Performance			
Dielectric strenght	ASTM D150	KV-mm	40
Dielectric loss coefficient	ASTM D150	-	-
The volume resistance	ASTM D257	Ωcm	10^{14}
The surface resistance	ASTM D257	Ω	10^{16}
Dielectric constant	ASTM D149	-	2.4