



DESCRIPTION

During production, polyethylene is prepared with raw materials, dyestuffs and auxiliary additives. They are insulation membranes that are homogeneously formed by means of a calendar system after undergoing the necessary processes in extruders. HDPE stands for high density polyethylene and LLDPE stands for linear low density polyethylene. According to the place to be used, LLDPE should be chosen if there are more details, recesses and protrusions, and Drylex Smooth HDPE Geomembrane should be chosen if there are flatter details.

The material is black, homogeneous and monochromatic. Special production can be made in different colors upon request. It can be produced smooth or textured according to the need.

AREAS OF USE

- Irrigation Channels and Water Transfer Lines
- Water Collection Basins
- Mine Fields
- Oil Fields,
- Ponds and Pools
- Solid, Medical and Hazardous Waste Areas.



PHYSICAL SPECIFICATIONS

Test Method	Unit	Values	Tolerance
Raw Material		High Density Polyethylene (HDPE)	
Density EN ISO 1183-1	gr/cm ³	0.925 – 0.965	

MECHANICAL SPECIFICATIONS

Identification Code	-	HD 1500	+/-10%
Thickness	EN 1849-2	mm	
Mass per Unit Area	EN 1849-2 gr/m ²	1395	
Tensile Strength at Yield	EN ISO 527 N/mm ²	>13	
Elongation at Yield	EN ISO 527 %	> 7	
Tensile Strength at Break	EN ISO 527 N/mm ²	> 15	
Elongation at Break	EN ISO 527 %	> 300	
Static Puncture Strength	EN ISO 12236 N	3700	
Tearing Strength	ISO 34-1 N/mm	> 75	
Shear Strength ASTM D 6392	N/25mm	500	
Peel Strength ASTM D 6392	N/25mm	398	



MECHANICAL SPECIFICATIONS

Water Permeability	EN 14150	m ³ /m ² .day	< 10-6	+/-10%
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DURABILITY AND CHEMICAL RESISTANCE

Carbon Black Content	ASTM D 1603	%	2-3	-
Carbon Black Distribution	ASTM D 5596	Category	1/2b	-
Melt Flow Index	EN ISO 1133	gr/10 min	2.16 kg 190 °C ; < 1 5.0 kg 190 °C ; < 3	+/-10%
Outdoor Resistance	EN 12224	%	< 30	+/-10%
Oxidation Resistance	EN 14575	%	< 30	+/-10%
Oxidative Induction Time	ASTM D 3895	minutes	> 120	+/-10%
Fire Test	EN ISO 11925-2	-	Class E	-
Resistance to Solid Liquid Extraction	EN 14415	%	METHOD A,B,< 5 METHOD C;< 25	+/-10%