

Gulnar Plastics Pvt. Ltd.

Unit No. 2, First Floor, Mahalaxmi Industrial Estate,
Gandhi Nagar, Lower Parel (w), Mumbai 400013, India



HDPE Geomembrane Smooth



High Density Polyethylene (HDPE) geomembrane liners are used in a wide range of applications. They are durable, cost effective and one of the most preferred products for lining projects which require low permeability, chemical, ultraviolet resistance and ageing resistance from the intense stresses of weather.

HDPE geomembranes are available in a variety of surface finishes including smooth and textured. Textured finishes provide higher friction angles to prevent slippage of adjacent materials when lining steep slopes, while smooth geomembranes are the preferred products for lining projects requiring low permeability.

They are widely used in Tank Liners, Aquaculture, Mining, Water and Solid Waste Management, Fluid Conveyance and Containment, Ash Ponds, Soil Protection and Stabilization, Land Fill Closures, Ponds and Reservoirs, Irrigation Canals, Waste containment and many other applications.



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PERFORMANCE PROPERTIES						
Property	Test Method	JFSSL	JFSSL	JFSSL	JFSSL	JFSSL
		750	1000	1500	2000	2500
Minimum Average Values						
Thickness, mm	ASTM D 5199	0.75	1	1.5	2	2.5
Thickness, mil (Lowest Individual - 10%)		30	40	60	80	100
Density, g/cm ³	ASTM D 1505	0.94	0.94	0.94	0.94	0.94
Tensile Properties (each direction)	ASTM D 6693					
1. Strength at Yield, N/mm width	Type IV Specimen	11	15	23	30	37
2. Strength at Break, N/mm width	,@ 50 mm/min	20	27	42	57	71
3. Elongation at Yield, %	G.L.33mm	13	13	13	13	13
4. Elongation at Break, %	G.L.51mm	700	700	700	700	700
Tear Resistance, N	ASTM D 1004	93	125	187	249	320
Puncture Resistance, N	ASTM D 4833	260	325	490	650	860
Oxidative Induction Time (Standard; S-OIT)	ASTM D 3895	100	100	100	100	100
Oxidative Induction Time (High Pressure; HP-OIT)	ASTM D 5885	400	400	400	400	400
Carbon Black Content,%	ASTM D 1603	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory

TYPICAL ROLL DIMENSIONS						
Dimension		JFSSL	JFSSL	JFSSL	JFSSL	JFSSL
		750	1000	1500	2000	2500
GSM (gm/m ²)		705	940	1410	1880	2350
Width of Roll, m		6	6	6	6	6
Length of Roll, m (Approximate)		200	150	100	100	100
Meter in Roll (Approximate)		1200	900	600	600	600
Weight of Roll, kg (Approximate)		846	846	846	1128	1410
40' Standard Container, roll		27	27	27	20	16
40' Standard Container, m ²		32400	24300	16200	12000	9600

Release Date: Aug 2, 2017

*JFSSL – Smooth / Smooth

These values are typical data and are not intended as limiting specifications and are subject to tolerances.

Notes:

While we believe the specification and properties to be reliable, the statements and information contained herein are only for general guidance and are not warranties or guarantees for accuracy and completeness. The user must, by test or otherwise, determine suitability of the products for the purpose it is being used. There is no warranty of fitness for a particular purpose. Our standard term and conditions of sale apply exclusively to all orders, and all liability for damages of any kind, including consequential, exceeding purchase price is excluded. No one is authorized by us to make oral warranties. We reserve the right to make changes without notice or obligation in our products and publications.

