



# Technical Data Sheet

**Product: HDPE Geomembrane**

Date Revised: 13/11/2018



Sepanta group  
Waterproofing Dep

## HDPE

Property	Test Method	Unit	1.0mm	1.5mm	2.0mm
Thickness	ASTM D5199	mm	1.0-10%	1.5-10%	2.0-10%
Density	ASTM D792	gr/cc	min. 0.94	min. 0.94	min. 0.94
Carbon Black Content	ASTM D5596	%	2-3	2-3	2-3
Carbon Black Dispersion	ASTM D5596	9~ctg 1,2 1~ctg	Pass	Accordinging note	Accordinging note
Oxidative Induction Time (OIT)	ASTM D3895-07	min	100	100	100
Oven aging at 85°C & 90days	ASTM D3896	%	Min. 55	Min. 55	Min. 55
Puncture Resistance	ASTM D4833	N	Min. 320	Min. 480	Min. 640
Strength @Yield	ASTM D6693	kN/m	≥15	Min. 22	Min. 30
Elongation @Yield	ASTM D6693	%	≥12	Min. 12	Min. 12
Strength @Break	ASTM D6693	kN/m	≥27	Min. 40	Min. 50
Elongation @Break	ASTM D6693	%	≥700	Min. 700	Min. 700
Tear Resistance	ASTM D1004	N	≥125	Min. 187	Min. 255
Stress Crack Resistance (SCR)	ASTM D5397	Hour	Min. 500	Min. 500	Min. 500
UV Resistance	ASTM D3895	%	N.R. (50%)	N.R. (50%)	N.R. (50%)

**Certificate**



**Main Advantage**

Sepanta HDPE manufacturer from high-quality polyethylene (97.5%) carbon black antioxidants with thermal stabiliser (2.5%) to meet mechanical properties requirements for many applications.

**Usage Application**

Agriculture, Heap leaching, Landfills, Corrosion Protection, Water Lagoons, Channels and Conduits, Wastewater Lagoons and Erosion Control

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