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improve your
construction



GeoSeal

HDPE Geomembranes



GeoSeal HDPE Geomembranes are developed to be used at solid and liquid waste disposal areas, aggressive liquid tanks, water canals, ponds and artificial lakes as a barrier layer made by high density polyethylene.

istanbul**teknik**



GeoSeal HDPE Geomembranes

GeoSeal HDPE Geomembranes can be produced as resistant to chemical, biological, mechanical and UV effects by additives anti-oxidation agents and carbon black. Smooth, single side and double side textured types can be produced. GeoSeal HDPE geomembranes can cover large areas quickly and properly thanks to it's large size and dimensions of rolls.

Fields of Application

- Solid waste disposals yards.
- Liquid waste disposals yards.
- Mining waste disposal yards.
- Acid pools.
- Liquid storage tanks.
- Wastewater treatment plants.
- Irrigation channels.
- Lagoons and landscaping artificial lakes.
- Water reservoirs.

Range of Products

Property	Unit	Value	Standart - Test Method
Thickness	mm	≥ 0,75-3,00	TS EN ISO 9863-1 (Method C)
Density	g/cm ³	0,940 - 0,970 (HDPE)	TS EN ISO 1183-1 (Method A)
Tensile Strenght (MD/CMD) B:Break Y:Yield	N/mm ²	B ≥ 27,0 (HDPE) Y ≥ 16,0 (HDPE)	TS EN ISO 527-3
Elongation (MD/CMD) B:BreakY:Yield	%	B ≥ 700,0 Y ≥ 12,0	TS EN ISO 527-3 (L0=25 mm) Measure with extensometer.
Tear Strength (MD/CMD)	kN/m	≥ 125 (HDPE)	TS ISO 34-1 Method B, Figure 2, Test Speed: 50 mm/min
Water Permeability	m ³ /(m ² day)	≤ 4x10 ⁻⁶	TS EN 14150
Carbon Black Content	%/mass	2,00 - 3,00	TS ISO 6964 Method A
Oxidation induction time (OIT)	minute	≥ 100	TS EN ISO 11357-6 (up to 200 °C 20 °C/min)

Special types can be manufactured on request.



Advantages

- It is durable by virtue of the special resin comprising of antioxidant and carbon black mixture.
- It features high resistance and elongation values.
- It is resistant against chemical impacts.
- It features high UV resistance by virtue of the carbon black content.
- By virtue of the special automatic welding machine (fusion welding) and method, it enables performance of air pressure, abrasion and peeling tests from its joints.
- The large roll size enables rapid and practical implementation opportunity for large-scale projects.
- It is applicable at steep slopes with single side or double sides textured products.

Packaging And Storage

GeoSeal HDPE Geomembranes are manufactured in rolls with 2.0m-7,5m width and generally 100-200m length. Rolls should be stored on smooth surface protected against direct sun light, rain, heat sources under cover. Please request loading information from your sale representative.



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Geoseal HDPE
Geomembranes are
resistant to chemical
impacts, has long
lifespan and high
strength.

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