

TECHNICAL DATA SHEET

GEOSYNTHETIC BARRIER HDPE

GEOSTAR

Polymeric geomembrana HDPE-GEOSTAR is impermeable barrier for fluids and/or gases. Occurs in smooth form, one- and both-sides textured and is intended for the construction of:

- reservoirs and dams, canals, tunnels and associated underground structures
- liquid waste disposal sites transfer stations or secondary containment,
- solid waste storage and disposal sites.

The product is resistant to petroleum substances (including aviation gasoline), many types of acids, bases and salts, as well alcohols, esters and ketones.

Charcteristics	Unit	Value				
		GEOSTAR 750	GEOSTAR 1000	GEOSTAR 1500	GEOSTAR 2000	GEOSTAR 2500
Thickness	mm	0,75 ± 10%	1,0 ± 10%	1,5 ± 10%	2,0 ± 10%	2,5 ± 10%
Band width *	mm	5100 ± 1%				
Mass per unit area	g/m ²	705 ± 10%	940 ± 10%	1410 ± 10%	1880 ± 10%	2350 ± 10%
Density	g/cm ³	≥ 0,94				
Carbon black content	%	≤ 3				
Maximum tensile stress: - in longitudinal direction - in transverse direction	MPa	25 (-3) 25 (-3)				
Relative elongation at break: - in longitudinal direction - in transverse direction	%	≥ 500 ≥ 500				
Resistance to static puncture	kN	2,3 (-0,5)	2,4 (-0,5)	2,9 (-0,6)	5,5 (-1,0)	5,5 (-1,0)
Durability: - oxidation - weathering - environmental stress cracking	-	Pass				
Water permeability	[m ³ m ⁻² dzień ⁻¹]	< 10 ⁻⁶ (product is waterproof)				
Gas permeability-methane	[m ² Pa ⁻¹ s ⁻¹]	≤ 6x10 ⁻¹⁸				
Resistance to root penetration	-	Pass				
Dangerous substances	-	No contains				
FPC certificate number	-	1023 – CPR – 0302 F				
Sanitary certificate number	-	HK/W/0271/01/2014 (valid until 24-07-2019)				

* or as agreed with the customer

Using of geomembranes should be in accordance with the technical design of the building, developed according to current building regulations, taking into account the technical characteristics of the product.