

## COMPOSITION

Synthetic membrane in TPO modified polyolefin obtained by co-extrusion, stabilized by a glass fiber, double-colour light green/black, that allows producing a single layer membrane with different chemical-physical properties on the two sides.

The upper light green, visible layer is featured by a very high resistance to weather and UV rays, while the underlying black layer is punching resistant, and resistant to root perforation.

Manufactured in a plant certified by UNI EN ISO 9001 (Quality management system) and UNI EN ISO 14001 (environmental management system).

Setting performed by technicians approved by Flag S.p.A. Finishing and accessories composed by elements produced and approved by Flag S.p.A.

## FEATURES

- Weatherproof and UV resistance
- Good dimensional stability
- Resistant to roots attack
- Mechanical resistance and resistance to punching
- Flexibility at low temperatures
- Excellent welding capacity
- Membrane with high environmental compliance

## AREAS OF USE

### HYDRAULIC WORKS

- Reservoirs
- Tanks with full/empty cycles
- Canals

## PROPERTIES

		GeoP 120	GeoP 150	GeoP 180	GeoP 200	Test method
Thickness	(mm)	1,20	1,50	1,80	2,00	UNI EN 1849-2
Weight	(kg/m <sup>2</sup> )	1,26	1,575	1,89	2,10	UNI EN 1849-2
Tensile strength	(N/mm <sup>2</sup> )	≥ 9	≥ 9	≥ 9	≥ 9	UNI EN ISO 527-3
Elongation to break	(%)	≥ 550	≥ 550	≥ 550	≥ 550	UNI EN ISO 527-3
Cold bending	(°C)	≤ - 40	≤ - 40	≤ - 40	≤ - 40	UNI EN 495-5
Hydrostatic pressure resistance (6 hours at 0,5 Mpa)		waterproof	waterproof	waterproof	waterproof	UNI EN 1928 met. B
Resistance to root penetration		no penetration	no penetration	no penetration	no penetration	UNI CEN TS 14416
Tear index	(N/mm)	≥ 45	≥ 45	≥ 45	≥ 45	ISO 34 sample 2
Resistance to static punching (CBR method)	(N)	≥ 750	≥ 1000	≥ 1200	≥ 1350	UNI EN ISO 12236
Oxydation resistance - Tensile strength variation	(%)	< 25	< 25	< 25	< 25	UNI EN 14575
Accelerated light aging - Tensile strength variation	(%)	< 25	< 25	< 25	< 25	UNI EN 12224
Resistance to leaching - Tensile strength variation - Loss in mass	(%) (%)	< 25 < 5	< 25 < 5	< 25 < 5	< 25 < 5	UNI EN 14415 A&B method

## PRODUCTION STANDARD

Thickness	1,20 mm	1,50 mm	1,80 mm	2,00 mm	
Width	2,10 m	2,10 m	2,10 m	2,10 m	
Length	25 m	20 m	20 m	20 m	
Colour	LIGHT GREEN/BLACK				

*Due to its formulation, the liner is NOT subject to the requirements set forth in the EEC 79/831 regulation on dangerous substances. If the product should be disposed of as a waste, we recommend sending it to an authorised landfill site or to an incinerator equipped with post-combustion chamber and fumes washing system. The data herewith indicated, apart from those required by EC branding, are not exhaustive and Flag SpA may modify them without previous notice. Flag SpA, has the right to modify the product at any time and without previous notice, in any of its aspect, and to stop its production.*



EC certification complying with standard EN 13361 and EN 13362 – no. 1085 – CDP – 0009