

COMPOSITION

Flexible polyolefin modified homogenous membrane manufactured by coextrusion: single layer membrane. Each of the two surfaces have different colours.

This means that any accidental holes or tears in the material which may occur to the upper orange surface during laying, becomes immediately visible as the black of the lower surface shows through. Manufactured in UNI EN ISO 9001:2000 (Quality System) and UNI EN ISO 14001:2004 (Environmental System) certified plant. Laying by installers approved by Flag S.p.A.

Finishing and accessories with elements manufactured and approved by Flag S.p.A.

FEATURES

- Signal layer
- High mechanical resistance
- Resistance to wash-out waters action
- Resistance to root penetration
- Flexibility at low temperatures
- Resistant to common parasites
- Resistance to bursting
- High environmental compability

AREA OF USE

FOUNDATIONS/TUNNELS

- Waterproofing of foundations in presence of water
- Humidity screen of foundations
- Natural and artificial tunnels

PHYSICAL-CHEMICAL PROPERTIES

		FLAGON PM/SL 200	FLAGON PM/SL 300	Testing method
Thickness	(mm)	2,0	3,0	UNI EN 1849 - 2
Weight	(kg/m ²)	1,80	2,70	UNI EN 1849 - 2
Tensile strenght (dumb-bell test specimen)	(N/mm ²)	≥ 17	≥ 17	DIN EN ISO 527 - 3
Elongation to break (dumb-bell test specimen)	(%)	≥ 600	≥ 600	DIN EN ISO 527 - 3
Resistance to impact strenght	(mm)	≥ 750	≥ 1300	UNI EN 12691
Root resistance		no penetration	no penetration	UNI CEN TS 14416
Cold bending	(°C)	≤ - 40	≤ - 40	UNI EN 495 - 5
Hydrostatic pressure resistance (6 hours at 0,5 MPa)		waterproof	waterproof	UNI EN 1928 meth. B
Resistance to tearing	(N/mm)	≥ 80	≥ 80	UNI EN 12310 - 2
Fire resistance	(class)	E	E	DIN 4102/1
Tear resistance	(N/mm)	55	55	ISO 34 specimen fig 2
Resistance to static punching (CBR)	(N)	≥ 1800	≥ 2700	UNI EN ISO 12236
Resistance to oxidation: - tensile strength variation	(%)	< 25	< 25	UNI EN 14575

PRODUCTION STANDARD

Thickness	2,0 mm	3,0 mm
Width	2,10 m	2,10 m
Length	20 m	20 m
Colour	Light green black	

ACCESSORIES SYSTEM

- FLAGON TPO disc for tunnel lining
- FLAGON TPO injection valve
- FLAGON TPO compartment joint (W4 - W6)
- Prefabricated accessories
- SALDAMAX 2000 - welding machine

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 waste, we recommend sending it to an authorised landfill site or to an incinerator equipped with post-combustion chamber and fume washing system.

