

FLAGON BSL

TECHNICAL DATA SHEET APTDS-E-28-06

DESCRIPTION

FLAGON BSL membrane is a non-reinforced, synthetic PVC-P membrane made by co-extrusion. It is highly resistant to attack by micro-organisms and perforation by roots. It is a different colour on each side:

- the upper surface (light green), which accounts for less than 20% of the total thickness, forms the "signal layer".
- the underside (dark grey) is highly resistant to puncture and perforation by roots.

FLAGON BSL is not UV resistant.

MAIN ADVANTAGES

- Excellent weldability
- Includes a signal layer
- High resistance to attack by micro-organisms and perforation by roots
- Can be used in the Flag Vacuum system

USE - APPLICATION

FLAGON BSL is a two-coloured membrane used as a waterproofing layer in civil engineering and building structures, such as:

- Tunnels and buried galleries
- Cut and cover tunnels
- Underground works
- Coverings of buried structures
- Underground car parks

SUGGESTED INSTALLATION EQUIPMENT

- Manual welding with hot air
- Automatic welding machine with hot air
- Automatic welding machine with double track Saldamax

PRODUCTION STANDARDS

	FLAGON BSL
Thickness	1.5 / 2.0 mm
Number of rolls on each pallet	23(1.5mm) / 18(2.0mm)
Roll length / width	20m(other lengths available on request) / 2.10m
Surface colour	Light green

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PROPERTIES

Properties	FLAGON BSL		
	BSL 1.5	BSL 2.0	Test method
Thickness (mm)	1.5 (±5%)	2.0 (±5%)	EN 1849-2
Mass per unit area (kg/m ²)	2.00	2.60	EN 1849-2
Dimensional stability (%)	≤ 2	≤ 2	EN 1107-2
Tensile strength (N/mm ²) -Longitudinal -Trasversal	> 15 > 14	> 15 > 14	EN ISO 527-3 EN 12311-2
Elongation at break (%) -Longitudinal -Trasversal	> 300 > 300	> 300 > 300	EN ISO 527-3 EN 12311-2
Water permeability after 6 hrs at 0.5Mpa	Watertight < 10-6m3m-2d-1	Watertight < 10-6m3m-2d-1	EN 1928 (B) EN 14150
Static puncture resistance(kg)	> 20	> 20	EN 12730
Tear strength (N/mm)	≥ 45	≥ 45	ISO 34 sample fig.2
Cold bending (°C)	≤ - 25	≤ - 25	EN 495/5
Resistance to perforation by roots	No perforation	No perforation	CEN TS 14416
Reaction to fire	E	E	EN 13501-1
Joint peel resistance (N/50mm)	≥ 200	≥ 200	EN 12316-2
Water vapour transmission (μ)	20,000	20,000	EN 1931

(All values are nominal)

APPROVAL/STANDARD

FLAGON BSL is designed and manufactured to meet international standards:

Polymeric sheets for roof waterproofing according to EN 13491.

Polymeric PVC sheets for waterproofing according to GB 12952, Type H.