

FLAGON AT

TECHNICAL DATA SHEET APTDS-E-37-01

DESCRIPTION

FLAGON AT membrane is a synthetic membrane made by co-extrusion from plasticised PVC, white in colour (dark grey available on request). The version with special dark grey colour of FLAGON AT can be used for basins containing fish; the colour and the reflectivity low level can avoid the decolouration of fish.

The raw materials used in the production of FLAGON AT allow to obtain a product that may come into contact with drinking water according to the main tests of national certification under which was tested.

CIVILROCK attaches the highest importance to the quality of its products. This is why we operate a quality assurance system according to ISO 9001 BSI certified.

MAIN ADVANTAGES

- Compatible with drinking water
- High resistance to weathering and UV rays
- High mechanical resistance
- High puncture resistance

USE - APPLICATION

FLAGON AT is a thermoplastic membrane made of PVC-P specifically designed to waterproof tanks and containers used for drinking water.

This membrane can contain fresh or salt water and lowconcentration liquid chemicals. To verify the compatibility with the specific chemical liquids, please contact the technical office CIVILROCK (tech-office@flag.it).

The sheets are welded together by applying hot air or using hot wedge, with manual or automatic welder. The welding can be made either with a track that with double track. The double track allow to perform a pneumatic test with air.

FLAGON AT is compatible with all accessories and membranes in the FLAGON PVC range.

PRODUCTION STANDARDS

	FLAGON AT		
Thickness	1,20 mm	1,50 mm	2,00 mm
Roll length / width	20ml (other lengths available on request) / 2.10ml		
Number of rolls on each pallet	28	23	18
Colour (surface / underside)	White (dark grey on request)		

CE MARKING

Unique identification code of the product-type: WPSIT0009

FLAGON AT membranes are produced by the FLAG Spa factory (SOPREMA group) in Chignolo d'Isola (Italy) and are CE marked no.1085-CPR-007 in accordance with EN 13361:2013 and EN 13362:2013.

FLAGON AT

TECHNICAL DATA SHEET APTDS-E-37-01

PROPERTIES

Properties	FLAGON AT			
	AT 1.20	AT 1.50	AT 2.00	Test method
Thickness (mm)	1.20	1.50	2.00	EN 1849-2
Mass per unit area (kg/m ²)	1.54	1.92	2.56	EN 1849-2
Tensile strength (N/mm ²)	> 17 (L/T)			EN 527-3
Breaking strength (%)	≥ 300 (L/T)			EN 527-3
Cold bending (°C)	≤ -30			EN 495-5
Water permeability after 6 hrs at 0.5Mpa	Watertight < 10 ⁻⁶ m ³ m ⁻² d ⁻¹			EN 1928 (B) EN 14150
Resistance to perforation by roots	No perforation			CEN TS 14416
Tear resistance (N/mm)	≥ 80 ≥ 45			EN 12310-2 ISO 34 sample fig.2
Static puncture resistance (N)	> 1450	> 1800	> 2450	EN 12236
Durability: Oxidation, variation in tensile properties (%) Weathering, variation in tensile properties (%)	≤ 25 ≤ 25			EN 14575 EN 12224
Resistance to thermal ageing in water: variation in tensile strength (%) mass loss (%)	< 25 < 5			EN 14415 (A and B)

(All values are nominal)

CERTIFICATION

FLAGON AT has obtained the following certifications:

France:

- Mentioned in CPP (Technical specifications): Basins, Tanks, Canals, Water towers and similar structures, by DEKRA.
- ACS (Sanitary conformity certificate) issued by the CARSO – L.S.E.H.L.

Italy:

- ACS (Sanitary conformity certificate) in accordance with USSL 75/III

Spain:

- ACS (Sanitary conformity certificate) in accordance with LGAI

SUGGESTED INSTALLATION EQUIPMENT

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