

FLAGON EP/PV

TECHNICAL DATA SHEET APTDS-E-27-01

DESCRIPTION

FLAGON EP/PV is Synthetic membrane manufactured in TPO modified polyolefin, double colour sand-grey/black, obtained by coextrusion, dimensionally stabilized by a glass fiber. The upper sand grey layer is featured by a very high resistance to weather and UV rays, while the underlying black layer is punching resistant.

Manufactured in a plant certified by UNI EN ISO 9001 (Quality management system) and UNI EN ISO 14001 (environmental management system). Laying performed by applicators 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
- Dimensional stability
- Mechanical resistance and resistance to punching
- Adaptability to structural movements
- Excellent flexibility at low temperatures

AREA OF USE

ROOFING

- Ballasted with fixed and mobile ballast:
 - pedestrian roofing and not-accessible roofing
 - green roof
 - roof gardens
- Vertical finishing, junction bands

PRODUCTION STANDARDS

	FLAGON EP/PV				
Thickness	1,20 mm	1,50 mm	1,80 mm	2,00 mm	2,40 mm
Width cast process	2.10 m	2.10 m	2.10 m	2.10 m	2.10 m
Number of rolls on each pallet	23	23	18	18	18
Length	25 m	20 m	20 m	20 m	20 m
Colour (surface / underside)	SAND GREY / BLACK				

CE MARKING

Unique identification code of the product-type: WPSIT0030

FLAGON EP/PV membranes are produced by the FLAG Spa factory (SOPREMA group) in Chignolo d'Isola (Italy) and are CE marked no.1085-CPR-011 in accordance with EN 13956:2012 and no.1085-CPR-0037 in accordance with EN 13967:2012.

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PROPERTIES

Properties	FLAGON EP/PV					Test method
	EP/PV 1.20	EP/PV 1.50	EP/PV 1.80	EP/PV 2.00	EP/PV 2.40	
Thickness (mm)	1.20	1.50	1.80	2.00	2.40	EN 1849-2
Weight (kg/m ²)	1.15	1.40	1.68	1.85	2.42	EN 1849-2
Tensile strength (N/mm ²)	≥ 9,0	≥ 9,0	≥ 9,0	≥ 9,0	≥ 9,0	EN 12311-2
Elongation to break (%)	≥ 550	≥ 550	≥ 550	≥ 550	≥ 550	EN 12311-2
Tear resistance (N)	≥ 130	≥ 165	≥ 195	≥ 220	≥ 240	EN 12310-2
Resistance to impact (mm)	≥ 450	≥ 800	≥ 900	≥ 1250	≥ 1500	EN 12691
Cold bending (°C)	≤ - 40	≤ - 40	≤ - 40	≤ - 40	≤ - 40	EN 495-5
Hydrostatic pressure resistance (6 hours at 0,5 Mpa)	waterproof	waterproof	waterproof	waterproof	waterproof	EN 1928 met. B
Dimensional stability (%)	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	EN 1107-2
Resistance to artificial weathering (UV)	no surface cracking	no surface cracking	no surface cracking	no surface cracking	no surface cracking	EN 1297
Resistance to roots penetration	no penetration	no penetration	no penetration	no penetration	no penetration	EN 13948
Resistance to static punching (kg)	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	EN 12730
Fire resistance	E	E	E	E	E	EN ISO 11925-1 EN 13501-1

(All values are nominal)