

ONYX Collection

Description: Reinforced, printed and lacquered membrane with increased protection against staining and abrasion of 1.5 mm of thickness. Microorganisms resistant. Application of a protective acrylic lacquer on the top layer. Maximum antislippery resistance also for public works prescriptions.

Application: Swimming pools applications. Useful for outdoor applications according to the European standard EN 15836-2 – Plastics-plasticized Poly (vinyl chloride) (PVC-P) membranes for inground swimming pools – Part 2: Reinforced membranes of nominal thickness equal to or greater than 1.5 mm.

Table 1 – Characteristics of the membrane

Characteristic	Test method	Value
Density	EN 1849-2	1800 + 100 g/m ²
Water absorption	EN ISO 62:08	≤ 1% OF MASS
CaCO ₃ content	ATOMIC ABSORPTION	≤ 3% OF MASS

Table 2 – Dimensional characteristics

Characteristic	Test method	Value
Mean thickness (mm)	EN 1849-2	1.5 (-5, +10%)
Thickness in the net cross (mm)	EN 1849-2	≥ 0.3
Width (mm)	EN 1848-2	NOM +/- 5 mm
Flatness (mm)	EN 1848-2	≤ 10
Linearity (mm)	EN 1848-2	≤ 30

Table 3 – Mechanical characteristics

Characteristic	Test method	Value
Tensile strenght (N/50 mm)	EN 12311-2 A	L,T ≥ 1100
Elongation at break (%)	EN 12311-2 A	L, T ≥ 15
Joint strenght, peel resistance (N/50 mm)	EN 12316-2	L,T ≥ 80
Tear resistance(N)	EN 12310-2	L,T ≥ 180
Dimensional stability (%)	EN 1107-2	L, T ≤ 0.5
Resistance to foldability (-25°C)	EN 495-5	WITHOUT CRACKS
Peel resistance of joints (N/50 mm)	EN 12316-2	≥ 80
Slip resistance (bareroof ramp test)	EN 16165:2021 ANNEXE A	GROUP C
Slip resistance (friction pendulum method)	UNE 41901	CLASS 3
Slip resistance (ramp test)	UNE EN 13451-1 ANNEXE E	GROUP C

Table 4 – Characteristics for durability

Characteristic	Test method	Value
Resistance to an artificial ageing of 19 GJ/m ² (6000 h)	EN ISO 4892-2:2006 MET. A CYCLE N° 1	≥ 3 ACCORDING EN 20105-A02
Resistance to action of microorganisms	EN ISO 846:97 / D	PERTE DE MASSE ≤ 1%
Resistance to streptovorticilium reticulum bacteria	EN ISO 846:97 / C	WITHOUT STAINS

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Table 4 – Characteristics for durability

Characteristic	Test method	Value
Chlorine resistance	EN 15836 ANNEX C	RATING > 3
Resistance to staining agents	EN 15836 ANNEX D	RATING > 4