TECHNICAL DATA SHEET

AQUAFORCE XTREME NON SLIP 1.5mm REINFORCED PVC LINER FOR COMMERCIAL POOLS

Application:

Reinforced and Non-Slip membrane for the waterproofing of swimming pools. Protected against staining and abrasion.

TECHNICAL DATA SHEET according to the European standard EN 15836, Plastics — Plasticized poly vinyl chloride (PVC-P) membranes for in ground swimming pools — Part 2: Reinforced membranes of nominal thickness equal to or greater than 1,5 mm

Characteristic	Value	Test Method
Composition specifications		
Mass per unit area	2,21 ± 0,2 kg/m^2	EN 1849-2
Reinforcement	3 x 3 PET 110 Tex	
Water absorption	≤ 1 % of mass	EN ISO 62 Method 1
$CaCO_3$ content	≤ 3 % of mass	Atomic absorption spectrometry
Dimensional specifications		
Mean thickness	1,8 mm ± 10%	EN 1849-2
Mechanical specifications		
Tensile strength	≥ 1,1 KN/50 mm	EN 12311-2 A
Elongation at break	18 ± 3 %	EN 12311-2 A
Tear resistance	≥ 150 N	EN 12310-2
Dimensional stability	≤ 1 %	EN 1107-2
Resistance to foldability at low temperature	≤ -20 °C	EN 495-5
Peel resistance of joints	≥ 80 N/50mm	EN 12316-2
Watertightness	< 1 x 10^{-3} l/m^2·day according EN 16582-1	EN 14150
Slip resistance	$\alpha_{barefoot\ pedestrian}$ > 24° (C Class)	DIN 51097:1992 // EN 13451-1
	$\alpha_{pendulum}$> 45° (3 Class)	UNE 41901:2017 EX
	DCOF > 0,42	ANSI A137.1-2017
Durability specifications		
Resistance to an artificial ageing of 19 GJ/m^2 (6000 h)	≥ 3 according EN 20105-A02	EN ISO 4892-2:2006 Method A cycle nº1
Resistance to action of microorganisms	Mass Loss ≤ 1 %	EN ISO 846:1997 / D
Resistance to streptoverticilium reticulum bacteria ATCC 25607	No Stains	EN ISO 846:1997 / C
Chlorine resistance	Rating ≥ 4	EN 15836 Annex C
Resistance to staining agents	Rating ≥ 3	EN 15836 Annex D

The composition of the membrane conforms to European legislation (CMR content cat. 1 and 2 less than 0.1% - Sum of Pb, Cd, Hg, Cr (IV) and As less than 100 mg/kg).

Storage Conditions:

The rolls must be stored horizontally in their original packaging in a dry room at a moderate ambient temperature (15 – 25 ºC).

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