

Dec-19

Technical Data Sheet: Ogenflex Pool Membrane

according to: AFNOR EN 15836-2 2010-8

Product Description: A PVC pool seal membrane reinforced with Polyester scrim, UV stabilized. Formulated and designed for out-door UV exposed pools

Product characteristics: Out-door UV resistance, 100% water seal membrane

Applications: Pool seal membrane water treated with standard methods

Warranty period: 10 years for water proofing

Properties	Units	Requirements	Test Results	Test Method
Aspect		No visible defect. Color conforms to the reference	No visible defect. Color conforms to the reference	EN 1850-2
Width	mm	Declared value ± 5 mm		EN 1848-2
Length	m	≥ Declared value		EN 1848-2
Weight	g/m ²	Ms +10% -5%	Printed 1850 Uni-color 1890	EN 1849-2
Average thickness	mm	± 5 %	1.5	EN 1849-2
Individual val. thickness	mm	± 8 %	1.5	EN 1849-2 c), d)
Flatness	mm	≤10	0	EN 1848-2
Linearity of the edges	mm	≤30	0	EN 1848-2
Tensile strength	N/5cm	≥ 1100	1200 1150	EN 12311-2 Method A
Elongation	%	Between 15 and 30	16 17	EN 12311-2 Method A
Resistance to De lamination	N/50mm	≥ 80	150	EN 12316-2
Hot air Welding strength	N/50mm	≥ 80	200	EN 12316-2
Tear strength	N	≥ 180	230 240	EN 12310-2 Trapezoid
Water Absorption	%	≤1	0.37	168 h at 23°C ISO 62 Method A
Dimensional stability	%	≤ 0.5	0.3	EN 1107-2
Cold Bending	°C	≤-25	-30	EN 495-5
Cold Bending after UV	°C		-20	EN 495-5 (416 MJ/m ²)



Resistance to Oxidizing agents: Supper chlorination	Change of color, gray scale ≥ 3	4	NF T 54-803-2 Appendix C 20ppm
Resistance to Staining agents	Degree ≥ 4 (superior) Lacquer Degree ≥ 2 (standard)	See table below	NF T 54-803-2 Appendix D

Properties	Units	Requirements	Test Results	Test Method
CaCO ₃ Evaluation Level	%	≤ 3	3	NF EN 14902:2005 Appendix A
Abrasion Resistance		No printing changes after 100 cycles	Pass	EN ISO 5470-1:1999 5N weight 60 tr/min
Color Difference		$\Delta E \leq 1.0$ Internal requirement	0.8	
Resistance against slip (for anti-slip)		$\geq 24^\circ$	$\geq 24^\circ$ for antislip	Appendix B
Resistance to micro-organism Soil burial		$\Delta m/m \leq 5\%$ (std.) $\Delta m/m \leq 1\%$ (Supper.)	4% 1%	ISO 846:1997 Method D
Resistance to Bacteria		No stains	No stains	ISO 846:1997 Method C
Resistance to artificial weathering Printed		≥ 3 3000 h (std.) 3000 h (Super)	Pass Pass	EN 20105 A02 ISO 4892-2:2006 Method A Cycle 1
Resistance to artificial weathering NON Printed		≥ 3 3000 h (std.) 6000 h (Super)	Pass Pass	EN 20105 A02 ISO 4892-2:2006 Method A Cycle 1

Resistance to Staining agents

Description	Contact time	Requirements	Results		Test Method
			Before abrasion	after abrasion	
Sunflower oil + 10% carbon black paste	24h	Degree ≥ 4 (superior)	5	5	Deterioration evaluation according to NF T 54-803-2 Appendix D
Distilled water +2 % iodine	10 min	Degree ≥ 2 (standard)	5	5	
Marker blue	10 min		5	5	
Yellow mustard	16h		4	4	
Sunflower oil +1% eosin Y	10 min		5	5	
Distilled water +0/1% methylene blue	16h		5	5	
Sunflower oil +1% solvent red 27	10 min		4	4	

