



Last Revision Date	Version No.	Date of issue	Editor Name
7 September 2010	3	6 February 2008	Nurit Naveh

Specifications for AGAM Swimming Pool according to:
AFNOR EN 15836-2 2010-8

AGAM Swimming pool liner consists of flexible PVC reinforced with Polyester scrim (7%)

Properties	Units	Requirements	Test Results	Test Method
Aspect		No visible defect. Colour conforms to the reference	No visible defect. Colour conforms to the reference	EN 1850-2
Width	mm	Declared value ± 5 mm		EN 1848-2
Length	m	\geq Declared value		EN 1848-2
Weight	g/m ²	Ms +10% -5%		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 Delamination	N/50mm	≥ 80	100	EN 12316-2
Welding strength	N/50mm	≥ 80	100	EN 12316-2
Tear strength	N MD TD	≥ 180	230 240	EN 12310-2 Trapesoid
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
Resistance to Chemical agents: - Oxidizing	Change of colour, grey scale ≥ 3		4	Deterioration evaluation According to NF T 54-803-2 Appendix C
- Staining	Degree ≥ 4 (superior) Degree ≥ 2 (standard)		See table below	Deterioration evaluation according to NF T 54-803-2 Appendix D

Last Revision Date	Version No.	Date of issue	Editor Name
7 September 2010	3	6 February 2008	Nurit Naveh

Specifications for AGAM Swimming Pool according to AFNOR

Properties	Units	Requirements	Test Results	Test Method
CaCO ₃ Evaluation Level	%	≤ 3	3	NF EN 14902:2005 Appendix A
Abrasion Resistane		No printing changes after 100 cycles		EN ISO 5470-1:1999 5N weight 60 tr/min
Color Difference		ΔE ≤ 1.0 Internal requierment	0.8	
Resistance against slip (for anti-slip)		≥ 24°		Appendix B
Resistance to micro-organism		Δm/m ≤ 5% (std.) Δm/m ≤ 1% (Supper.)		ISO 846:1997 Method D
Resistance to Bacteria		No stains		ISO 846:1997 Method C
Resistance to artificial weathering Printed		≥ 3 3000 h (std.) 3000 h (Supper)		EN 20105 A02 ISO 4892-2:2006 Method A Cycle 1
Resistance to artificial weathering NON Printed		≥ 3 3000 h (std.) 6000 h (Supper)		EN 20105 A02 ISO 4892-2:2006 Method A Cycle 1

Staining:

Description	Contact time	Requir-ements	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	

Nurit Naveh
R&D Manager