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Specifications for Swimming Pool 2.05

Properties	Units	Requirements	Test Results	Test Method
Aspect		No visible defect. Colour conforms to the reference $DE \leq 1$	No visible defect. Colour conforms to the reference	
Width	cm	205 +1%		ASTM D 751 Para 6
Length	m	+ 1%		ASTM D 751 Para 5
Flatness	mm	≤ 10	0	EN 1848-2
Linearity of the edges	mm	≤ 50	0	EN 1848-2
Nominal Thickness	mm	≥ 1.5	1.5	
Average thickness	mm	$\pm 5 \%$	1.5	ASTM D 751 Para 7
Breaking strength	N/5cm	Min 1100	1200 1300	ASTM D 751 Method B
Elongation	%	Between 15 and 25	16 17	ASTM D 751 Method B
Resistance to Delamination	N/50mm	≥ 100	100	ASTM D 751
Tear strength	N MD TD	180	230 240	EN 12310-2 Trapezoide
Seam Strength	N/50mm	$\geq 80\%$ of breaking strength		ASTM D 751
Absorption of water		$\leq 1\%$		7 days at 23°C
Dimensional stability	%	≤ 0.5	0.3	ASTM D 1204 80°C 6 hr
Cold Bending	°C	≤ -20	-30	EN 495-5
Color Difference Between rolls		$\Delta E \leq 1.0$	0.8	
Color Difference From standard		$\Delta E \leq 1.0$	0.8	
Stiffness Length of overhang	Cm	Min 11	10.5	Fed Std 191A Method 5206 5.9.2 23° C

Resistance to Chemical: - Oxidizing	Change of color, grey scale ≥ 3	4.5	NF ISO 105-B02 Appendix A
- Staining	Degree ≥ 4 (superior)	5	ISO 4586-2 Appendix B
Weathering 4000 hr	No crack (X7 magnification) Color Change grey scale ≥ 3		ASTM G 53 UVA 340 nm 8hr 60°C Cond. 4 hr 50°C
Gloss 60°	Min 11	20	

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