

# TECHNICAL DATA SHEET

## RENOLIT ALKORPLAN EXO Liner – Type 353192/353193

### Application:

Homogenous printed sheet for the waterproofing of swimming pools with protection against staining and abrasion. With non-slip embossing.

**TECHNICAL DATA SHEET** according to the European standard EN 15836, Plastics — Plasticized poly vinyl chloride (PVC-P) membranes for in ground swimming pools — Part 1: Homogenous membranes of nominal thickness equal to or greater than 0,75 mm.

Characteristic	Value	Test Method
<b>Composition specifications</b>		
Mass per unit area	1,125 ± 0,1 kg/m <sup>2</sup>	EN 1849-2
Density	1,27 ± 0,02 kg/dm <sup>3</sup>	EN 1183-1
Water absorption	≤ 1 % masse	EN ISO 62 Method 1
CaCO <sub>3</sub> content	≤ 3 % masse	Atomic absorption spectrometry
<b>Dimensional specifications</b>		
Mean thickness	0,9 mm ± 3%	EN 1849-2
<b>Mechanical specifications</b>		
Tensile strength	≥ 15 N/mm <sup>2</sup>	EN 12311-2 A
Elongation at break	≥ 265 %	EN 12311-2 A
Tear resistance	≥ 75 N/mm	EN 12310-2
Dimensional stability	≤ 4 %	EN 1107-2
Resistance to foldability at low temperature	≤ -25 °C	EN 495-5
Peel resistance of joints	≥ 1,6 N/mm	EN 12316-2
Shear resistance of joints	≥ 10 N/mm <sup>2</sup>	EN 12317-2
Watertightness	< 1 x 10 <sup>-3</sup> l/m <sup>2</sup> ·day according EN 16582-1	EN 14150
Slip resistance	α <sub>barefoot pedestrian</sub> ≥ 24° (C Class)	DIN-EN 16165 Annex A
	α <sub>pendulum</sub> > 45° (Rating = 3)	UNE-EN 16165 Annex C AN A
	DCOF > 0,42	ANSI A326.3-2021
<b>Durability specifications</b>		
Abrasion resistance	≥ 500 cycles; Rating ≥ 3	EN ISO 5470-1
Resistance to an artificial ageing of 19 GJ/m <sup>2</sup> (6000 h)	≥ 3 according EN 20105-A02	EN ISO 4892-2:2006 Method A cycle n°1
Resistance to action of microorganisms	Mass Loss ≤ 1 %	EN ISO 846:1997 / D
Resistance to streptovorticium reticulum bacteria ATCC 25607	No Stains	EN ISO 846:1997 / C
Chlorine resistance	Rating ≥ 3	EN 15836 Annex C
Resistance to staining agents	Rating ≥ 4	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 °C).

**Roll width** should never be checked on the same roll, as the winding tension can cause variations. The roll width should be checked on the table with the material relaxed, at least one hour after its extension.

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