

TECHNICAL DATA SHEET

RENOLIT ALKORPLAN KOLOS - Type 35116101/102 Zephir, 35116103/104 Delos

Application:

Reinforced, lacquered, unicolor and Non-Slip membrane for the waterproofing of swimming pools. Protected against staining and abrasion. Contains at least 40% of recycled plastic. Available in 1,65 & 2,05 m.

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	1,8 ± 0,1 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	1,5 mm ± 5%	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	≥ 180 N	EN 12310-2
Dimensional stability	≤ 0,5 %	EN 1107-2
Resistance to foldability at low temperature	≤ -25 °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	α _{barefoot pedestrian} ≥ 24° (C Class)	DIN-EN 16165 Annex A
	α _{pendulum} > 45° (Rating = 3)	UNE-EN 16165 Annex C AN A
Durability specifications		
Abrasion resistance	≥ 500 cycles; Rating ≥ 3	EN ISO 5470-1
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 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 ≥ 4	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).

November 24th, 2024