RENOLIT ALKORPLAN – Type 35516

Application:

Reinforced, lacquered membrane for the waterproofing of swimming pools. Protected against staining and abrasion. It can be used in swimming pools or ponds containing fish or other aquatic species.

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.

Table 1: Characteristics of the membrane

Characteristic	Value	Test Method
Mass per unit area	$1,8 \pm 0,1$ 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

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).

Table 2: Dimensional characteristics

Characteristic	Value	Test Method
Mean thickness	1,5 mm ± 5%	EN 1849-2

Table 3: Mechanical characteristics

Characteristic	Value	Test Method
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

Table 4: Characteristics for durability

Characteristic	Value	Test Method
Resistance to an artificial ageing of 19 GJ/m^2 (6000 h)	≥ 4 according EN 20105–A02	EN ISO 4892-2:2006 Method A cycle nº1
Resistance to action of microorganisms	Mass Loss ≤ 1 %	EN ISO 846:1997 / D
Resistance to streptoverticilium 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

Storage Conditions:

The rolls must be stored horizontally in their original packaging in a dry room at a moderate ambient temperature (15 – 25 ºC).

1 September 2015