

Techincal Data Sheet

Gummiduk för markbädd

Recommended Applications:

Long term waterproofing of reservoir for the realization of basins and ponds; waterproofing for sewage storage; every kind of application that requires high U.V. resistance.

Definitive long term covers for landfills; long term remediation of contaminated sites, sheltering and subgrade for of hydro-sensitive material, bio-pile, land awaiting characterization and any other rainproof application and gas or vapour containment; waterproofing coverings for wide surfaces with pre-welded to measure tarpaulins.

Composition:

Polyethylene (PE) reinforced geomembrane.

Certified technical specifics:

ITEM	VALUES	TEST METHODS
Weight	420 g/m ²	UNI EN ISO 9864
Thickness	0,6 mm	UNI EN ISO 9863-1
Tensile strenght [MD]	27 kN/m	UNI EN ISO 527-1 527-4
Tensile strenght [CMD]	26 kN/m	UNI EN ISO 527-1 527-4
Elongation at maximum load [MD]	23 %	UNI EN ISO 527-1 527-4
Elongation at maximum load [CMD]	24 %	UNI EN ISO 527-1 527-4
Static puncture resistance	4,7 kN	UNI EN ISO 12236
Shear strenght of the welded seam	1251 N/50mm	UNI EN ISO 12317-2
Temperature resistance (Range)	- 30° ≤ T°C ≤ 70°	DIN EN 1876-1
UV resistance (Grade)	2000 kLy	-
Liquid permeability	< 10 ⁻⁶ m ³ • m ⁻² • d ⁻¹	UNI EN 14150
Gas tightness (Oxygen)	< 40 • 10 ⁻⁶ m ³ • m ⁻² • d ⁻¹ Pa	ASTM D 1434
Resistance to weathering	Variation of tensile strenght and tensile elongation ≤ 25%	UNI EN 12224
Resistance to oxidation	Variation of tensile strenght and tensile elongation ≤ 25%	UNI EN 14575
Chemical resistance	Variation of tensile strenght and tensile elongation ≤ 25%	UNI EN 14414
Standard Size	20 m width x 50 m lenght	-
Maximum Size	40 m widht x 60 m lenght	-

The above-mentioned technical data derive from accurate laboratory tests, with a tolerance of 10 %

ITEM	VALUES	TEST METHODS
Thickness	0,6 mm	ASTM D 1777
Grab tensile [MD]	1479 N	ASTM D7004
Grab tensile [TD]	1425 N	ASTM D7004
Strip Tensile [MD]	1865 N/5cm	ASTM D7003
Strip Tensile [TD]	1825 N/5cm	ASTM D7003
Tongue Tear - large scale [MD]	262 N	ASTM D5884
Tongue Tear - large scale [TD]	261 N	ASTM D5884
Mullen Burst	4074 kPa	ASTM D751
Water vapour transmission proc BW	0.22 g/m ² · 24hr (0.02 perms)	MVTR ASTM E96
Hydraulic Conductivity (Permeability) (cm/s)	9,88 * 10 ⁻¹⁵ cm/s	Calculated from MVTR
Hydrostatic Resistance (KPa)	2758 kPa	ASTM D751
Puncture Resistance (N)	657 N	ASTM D4833
CBR Static Puncture (N)	4536 N	ASTM D6241
Carbon Black Content (%)	7,11%	ASTM D4218
Dimensional Stability (%)	MD -3,55% / TD -2,78%	ASTM D1204
Low Temperature Flex	100% passing	ASTM D2136
HP-OIT (minutes)	654 min	ASTM D5885
Accelerated UV Weathering (8 hrs UV @60 °C; 4 hrs condensation @50°C)	>90% strength and elongation retention after 1200 hours exposure @ 0,89 W/m ² /nm	ASTM G 151 / 154

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