

PVC ANTIBACTERIAL®

PVC Antibacterial Geomembrane



Product Description

PVC Antibacterial® Geomembranes are manufactured using special additives that prevent odor and bacterial growth, combined with polyvinyl chloride and graphene oxide during production. This ensures that the stored water remains clean, safeguarding one of life's essential resources and providing storage conditions that do not pose a threat to human health.

Graphene oxide film has enhanced antibacterial geomembranes, making them widely used in areas where human consumption is involved. Along with eliminating harmful bacteria, these membranes are resistant to bacterial adhesion and odor formation. They are typically produced in blue.

- Roll dimensions are standard values. It is available in different sizes according to customer demand
- The following values are valid for standard **PVC ANTIBACTERIAL®** Geomembrane. Production is available with different mechanical and chemical properties according to customer demand.
- Please contact **GEOMERT®** for more information.



Areas of Use

- Water Storage Tanks
- Treatment Facilities
- Dams
- Water Treatment Facilities
- All Pools



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PHYSICAL SPECIFICATIONS

Test Method		Unit	Value			Tolerance
Raw Material			Polyvinyl Chloride (PVC) + Graphene Oxide			
Thickness	EN 1849-2	mm	1,20	1,50	2,00	+/- 10%
Mass per Unit Area	EN 1849-2	qr/m2	1524	1905	2540	

MECHANICAL SPECIFICATIONS

Tensile Strength	EN ISO 527	N/mm2	15			-
Elongation at Break	EN ISO 527	%	250			
Static Puncture Strength	EN ISO 12236	N	1200	1500	2000	
Tearing Strength	ISO 34-1	N/mm	60			
Shear Strength	EN 12317-2	N/50mm	500	600	800	
Peel Strength	EN 12316-2	N/50mm	340	420	560	

HYDRAULIC SPECIFICATIONS

Water Permeability	EN 14150	m /m .day	4x10-6			-
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DURABILITY AND CHEMICAL

Outdoor Resistance	EN 12224	%	<10	
Oxidation Resistance		%	< 25	
Fire Test	EN 14575	-	Class E	
UV Radiation High Temperature Artificial Aging Test				
	EN 1297	%	<1	

PACKING SPECIFICATIONS

Thickness			1200	1500	2000	
Area	m*m=m²		2,10 * 20= 42 ---- 2,10 * 25= 52,5			
Weight	kg/roll		+/- 87	+/- 108	+/- 143	+/- 10%