

PVC GEOMEMBRANE®

PVC (YS-GS-B) Geomembrane



Product Description

PVC (YS-GS-B) geomembranes are produced using polyvinyl chloride raw materials, along with added dyes, chemical additives, and auxiliary compounds. They are obtained through the polymerization of vinyl chloride. These geomembranes are prepared by combining PVC (polyvinyl chloride) resin, fillers, additive materials, dye chemicals, plasticizers, and stabilizers. After undergoing necessary processes through extruders, they are homogeneously formed into an insulation, protective, and reinforcement material using a transfer system.

PVC UV Geomembrane with Signal Layer (PVC-YS)

To facilitate the detection of damage, this geomembrane model features a two-colored design with a thin, light-colored (**YS-yellow**) layer on one side. When the material is damaged, the thin light-colored (**YS-yellow**) layer reveals the darker color (**YS-black**) underneath, helping to visually identify the damage on the surface. Upon visual inspection, the damaged area can be easily noticed, allowing for prompt intervention. Three types of membranes are produced: (**YS**) – **Yellow-Signal Layer**, (**GS**) – **Gray-Black Layer**, and (**B**) – **Black Layer**.

PVC UV Geomembrane with Signal Layer

*Roll sizes are standard values. Different sized production upon the request of the customer is available.

*The above values are valid for standard PVC UV Geomembrane. Production with different mechanical and chemical properties is available upon customer's request.

*Please contact **GEOMERT®** for more information.

Areas of Use





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PHYSICAL SPECIFICATIONS

Test Method	Unit	Value						Tolerance
Raw Material		Polyvinyl Chloride (PVC)						
Thickness	EN 1849-2	mm	1,20	1,50	1,80	2,00	2,50	3,00
Mass per Unit Area	EN 1849-2	gr/m2	1524	1905	2286	2540	3175	3810
								-10%

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	1850	2000	2500	3000	
Tearing Strength	ISO 34-1	N/mm	60							
Shear Strength	EN 12317-2	N/50mm		500	600	700	800	1000	1200	
Peel Strength	EN 12316-2	N/50mm		340	420	510	560	700	840	

HYDRAULIC SPECIFICATIONS

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

Thickness	EN 1849-2	mm	1,20	1,50	1,80	2,00	2,50	3,00	-
Oxidation Resistance		%	< 25						
Fire Test	EN 14575	-	Class E						
Artificial Aging by Prolonged Exposure to a Combination of UV Radiation, High Temperature,		C	-40° / +50°						
	EN 1297								

PACKING SPECIFICATIONS

Roll Dimensions	Type		PVC 1200	PVC 1500	PVC 1800	PVC 2000	PVC 2500	PVC 3000
	Area	m*m=m²	2,10 * 20 = 42					
	Weight	kg/roll	+/- 70	+/- 90	+/- 110	+/- 120	+/- 150	+/- 180

IMPORTANT WARNINGS (Storage and Preservation Method)

- It should be stored in a place away from sunlight, not below 5C.
- Materials exposed to sunlight outdoors and in cold weather conditions lose their properties. Necessary precautions should be taken and attention should be paid in this regard.
- The consumption period of packaged products is 1 year. We would like to remind you that products that are not consumed within 1 year may be deformed.
- **For more information, please contact GEOMERT®**

