

MODseal Geo 60-1000 PMB

(Polypropylene Mechanical Bonding)

Non-Woven Polypropylene Geotextile



Product Description

MODseal Geotextiles are permeable fabrics made from synthetic fibers like polypropylene. They're designed to improve soil properties and are used in various civil engineering applications. These are made by either needle-punching or heat-bonding fibers together. These are ideal for filtration and drainage-applications.

Product Features

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals
- Good tear and puncture resistance

Product Function

Geotextiles are used to provide protection, filtration, separation, reinforcement and drainage functions in soil, rock and waste materials.

Product Typical Use

Roads, Railways, Foundation & Retaining Walls, Drainage System, Erosion Control System, Reservoirs, Canales, Tunnels & Underground, Solid Waste, Liquid Waste & Marine Purpose. They are also specifically used as separation and protection layers within structural waterproofing system, protection and moisture mats within the roofing system.

Instructions for Application

The geotextile fabric can be loosely laid depending on type of application and site conditions. The surface generally should be clean and free from debris and large cavity. For roof applications, geotextile should be applied upon clean substrate, either thermal insulation board or waterproofing membrane.

Health & Safety

All safety measures should be taken during application. Fire extinguishers should be available

on the site. Workers should wear personnel protective tools such as gloves and goggles during application.

Packing

It is produced in rolls dimensions as under:

Weight (g/m2) MODseal Geo	Width (M)	Length (M)
60 - 80	1	100 / 50
100 - 350	3 / 5.8 / 6	100 / 50 / 50
400 - 1000	5.8 / 6	50 / 50

The rolls are wrapped with double PE foil.

Custom size also available as per big quantity.

Product Picture (For Illustration)



Storage & Material Handling

The rolls should always be stored in a shaded area and not to be left on direct sunlight for more than 14 days.

Product Technical Data Sheet

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Product Technical Properties

Properties	Unit	60	80	100	120	125	130	140	150	160	180	200	250	300	350	370	400	450	500	600	800	900	1000
Tensile Strength - MD	kN/m	4.0	5.0	6.0	8.0	8.5	9.0	10	11	11.5	13	14.5	18	21.5	25	26	28.5	30.0	35.5	40.0	57	64	71.5
Tensile Strength - CD	kN/m	4.0	5.0	6.0	8.0	8.0	9.0	10	11	12	13.5	15	18.5	22	26	27	29.5	32.5	37	45.0	59	66	73.5
Tensile Elongation at break - MD	%	35	45	55	58	60	60	65	68	70	70	75	75	75	75	75	75	80	80	85	85	65	85
Tensile Elongation at break - CD	%	40	50	60	62	62	63	65	70	75	75	80	80	80	80	80	80	80	80	82	85	65	85
CBR Puncture Resistance	kN	.65	.75	.85	1.01	1.05	1.15	1.17	1.26	1.35	1.53	1.68	2.4	3.1	3.7	3.9	4.46	4.90	5.0	7.50	8.76	10	12
Dynamic Cone Drop	mm	36	34	32	26.5	25.5	24.5	22.5	21.5	20	17.5	15	12.5	10.5	9	8.5	7.5	6.5	5.5	5.0	0	0	0
UV Resistance	%/hrs	70 / 500																					
Permeability	m/s (x 10 ⁻³)	270	260	250	208	200	190	180	165	156	140	125	100	85	70	65	62	55	49	30	29	25	22
Waterflow normal to the plane	l/m ² /s	270	260	250	208	200	190	180	165	156	140	125	100	85	70	65	62	55	49	30	29	25	22
Characteristic Opening Size	µm	300	280	270	250	240	230	220	200	190	180	170	160	150	140	130	130	110	120	100	90	80	70
Nominal Thickness* under 2 kPa	mm	.60	.80	1.00	1.20	1.25	1.30	1.40	1.50	1.60	1.80	2.00	2.20	2.40	2.60	2.75	2.80	3.00	3.30	4.50	5.30	7.00	7.50
Weight (*)	g/m ²	60	80	100	120	125	130	140	150	160	180	200	250	300	350	370	400	450	500	600	800	900	1000
Durability	Predicted to be durable for minimum of 25 years in natural soil with 3 < ph. < 12 and soil temperature < 25° C. Maximum allowed time between installation and covering of geotextile is 02 - 03 weeks																						

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Our Other Products & Range

- Primers all type
- Membrane all type & thickness
- Protection Board all type & thickness
- Geotextile (Non-Woven & Woven) all type & thickness
- Polystyrene / Insulation board all type & thickness
- Sealants all type
- Aluminum Flashing all type & thickness
- Filler / Bitumen Board all type & thickness
- Acrylic / Rubberized / Cementitious / Acrylic Cementitious / Polyurethane / Crystalline Coatings all type
- Water stoppers all type & thickness
- Dam proofing all type & thickness
- Polyurea / PU Foam
- Rockwool/Glasswool all type & thickness
- Polythene Sheet all type & thickness
- PP / Carton Board all type & thickness
- Injection Packer & Pump
- Geogrid all type & thickness
- Geocell all type & thickness
- Salt Barrier all type & thickness
- Root Barrier all type & thickness
- Root Guard all type & thickness
- Drainage Cell all type & thickness
- Backing/Foam rod all type & thickness
- Tile Glue
- Tile Grout (cementitious or Epoxy)
- Tile & Gravel
- GRP lining material
- HDPE/Geo-membrane Lining material
- Fiber Mesh all type & thickness
- Cloth Mesh all type & thickness

Note

- This Technical Data is the average results of tests, measurements and trials carried out by Modern Seal Group (MSG) own laboratory and AMST laboratories according to international standards such as ASTM, B.S and UEAtc.
- This product data sheet supersedes all previous data publications pertaining to this product.
- All the time of manufacturing, handling, storage, and shipping may change these properties.