OXIGEO PP *

Polypropylene based Geotextile Membrane

PRODUCT DATA SHEET

Description

OXIGEO is a needle punched nonwoven geo textile which are versatile in solving many soil and water management problems found in construction, it is UV stable polypropylene fibers which become a integral part of the fluid and vapor management system. It contains various mechanical, hydraulic and filtering criteria imposed by soil and construction conditions.

Application

- Land reclamation
- Breakwaters
- Harbor
- Marinas
- Membrane protection
- Landfills
- Foundations
- Landscaping
- Bridge supports
- Abutments
- Basal trains
- Asphalt and roofing overlays

Uses:

Drainage:
The ability to convey water and ground water prevents soil saturation, pressure buildup and stagnation. Our nonwovens have excellent permeability to match condition requirements.

Filtration:
The ability to convey water through the plane of the fabric while preventing movements of soil particles
Needle punching creates a fabric structure with a high distribution of pores through the thickness such that water flow remains high while soil particles are retained.

Reinforcement:
Localized loads are distributed over larger area of sub grade by placing the fabric in tension. Elongation, toughness and good soil adhesion ensure adequate placement and support. When impregnated in paving or roofing applications stresses are relieved and crack propagation is prevented.

Protection
When placed over a membrane our fabric provides a layer of protection from puncture. Vapor and hydraulic pressure is also relieved due to the fabrics permeability. Underneath riprap the sub grade is protected from erosion by controlling water flow and soil piping.

Separation
Two materials are prevented from mixing during installation and subsequent use. Keeping aggregates separate from the base soils maintains the drainage and load bearing characteristics of each layer.

Information
Al Majara Polychem industries LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable care it's taken compiling this technical data sheet, all recommendations regarding the use of product are made without guarantee since the conditions are use the beyond the company' direct control. It is the customer responsibility to satisfy themselves that each product is fit for the purpose for which they indent to use it.

Quality Matters
All products originating from Al Majara Polychem Ind. LLC are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9000, ISO 14001 and OHSAS 18001.

Refer to material Safety datasheet for further information

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OXIGEO Series Polypropylene Geotextiles

Technical Specifications

Roll Dimensions (WxL)	Fabric Weight	Thickness (2kN/m2	Physical properties	Maximum pore size(O90)	Flow rate normal to the plane @ 10 cm head	Permittivity	Water permeability "K" value	Hydraulic Properties	Trapezoid tear (MD/CD)	Grab elongation (MD/CD)	Grab strength (MD/CD)	Elongation(MD/CD)	Tensile strength (MD/CD)	Puncture strength	Mullen burst strength	Dynamic puncture (cone drop test)	CBR Puncture Strength	Mechanical Properties
-	ASTM D 5261	ASTM D 5199	Test Method	EN ISO 12956	BS 6906-3	ASTM D 44491	ASTM D 44491	Test Method	ASTM D 4533	ASTM D 4632	ASTM D 4632	EN 26073-3	EN 26073-3	ASTM D 4833	ASTM D 3786	EN 918	EN ISO 12236	Test Method
m	g/m2	mm	Unit	micron	IM2/S	s-1	cm/s	Unit	N	%	N	%	N/5cm	N	psi	mm	N	Unit
3x100	100	1.5	OXIGT-12	140	250	2.5	0.35	OXIGT-12	100/110	>70	190/220	>70	180/210	175	135	30	1020	OXIGT-12
3x100	120	1.7	OXIGT-14	140	210	2.1	0.35	OXIGT-14	120/130	>70	260/310	>70	250/300	210	165	26	1230	OXIGT-14
3x100	140	1.8	OXIGT-16	120	180	1.8	0.35	OXIGT-16	140/150	>70	310/410	>70	300/400	250	185	23	1440	OXIGT-16
3x100	150	1.9	OXIGT-17	106	160	1.6	0.34	OXIGT-17	150/160	>70	320/420	>70	310/410	265	200	22	1550	OXIGT-17
3x100	180	2.3	OXIGT-20	85	140	1.4	0.33	OXIGT-20	180/240	>70	420/660	>70	400/640	350	300	19	1850	OXIGT-20
3x100	200	2.6	OXIGT-22	80	125	1.25	0.32	OXIGT-22	200/300	>70	500/700	>70	440/700	440	310	18	2100	OXIGT-22
3x100	250	2.8	OXIGT-27	80	100	1	0.28	OXIGT-27	250/400	>70	580/900	>70	550/850	550	370	14	2600	OXIGT-27
3x100	300	3.2	OXIGT-32	75	85	0.85	0.27	OXIGT-32	300/500	>70	750/1150	>70	720/1100	650	450	12	3100	OXIGT-32
3x100	350	3.6	OXIGT-37	75	75	0.75	0.27	OXIGT-37	350/550	>70	870/1350	>70	840/1300	780	550	9	3600	OXIGT-37
3x100	400	4	OXIGT-42	75	65	0.65	0.26	OXIGT-42	400/650	>70	980/1650	>70	950/1600	900	650	8	4100	OXIGT-42
3x100	500	4.8	OXIGT-52	75	52	0.52	0.26	OXIGT-52	500/850	>70	1200/1900	>70	1150/1850	1100	750	5	5100	OXIGT-52
3x100	600	5.4	OXIGT-62	75	45	0.45	0.26	OXIGT-62	660/1050	>70	1440/2200	>70	1350/2200	1300	900	0	6150	OXIGT-62

MD = Machine Direction, CD= Cross Machine Direction

The values reported in the specification sheet are average results obtained in our laboratory and independent test institutes.