



GEO-Textile



Introduction :

SI GEO-Felt is a nonwoven high performance geo-textiles are strong geo-synthetic fabric made of polyester using needle punching technology. used in civil construction projects such as road or damp building that stabilizes loose soil and prevents erosion. It has high elongation and UV resistance due to its %100 fibers used virgin white polyester.

Function :

- 1. Separation:** The use of **GEO-Felt** to prevent the intermixing of dissimilar materials so that the functioning of both materials can remain intact.
- 2. Filtration:** By permitting water flow while preventing the uncontrolled passage of soil particles.
- 3. Reinforcement:** **GEO-Felt** resists stresses or deformation of structures due to its tensile properties.
- 4. Sealing:** when impregnated with asphalt to act as a moisture barrier.
- 5. Stress Absorption:** In pavement overlay when impregnated with asphalt.
- 6. Protection:** **GEO-Felt** has stress reduction properties to prevent damage of adjacent surface or layer.

Storage :

When stored dry, and kept from freezing: Original closed packaging or container, in dry or covered place storage under moderated temperature above 50C below 300C protects from sunlight and frost.

Use :

SI GEO-Felt Are used in Road and Railway soil stabilization, Asphalt pavement, Water roofing, Pipeline protection, Riverbank and Shore Protection Sub-surface drainage system, Waterproofing membrane protection, Landfill, Landscaping etc.

Health and Safety :

Toxicity- nontoxic and odorless

Flammability - It's a PET short fiber non-woven polyester mat- nonflammable.

Skin contact - Avoid contact with skin and eyes.

In case of contact with eyes and skin wash properly with tap water and soap.

Eye contact - In case of eye contact, rinse thoroughly with clean water but do not rub. If irritation continues consult with a doctor.

SI GEO-FELT

صناعة
سعودية
MADE IN KSA



Needle-punched 100g
pet short fiber non-woven

PROPERTIES		TEST METHOD	UNIT	STANDARD VALUE	TOLERANCES
Weight		ISO9073-1	g/m	100	+10 %
Thinness		ISO9073-2	mm	0.9	±10 %
Tensile	MD	ISO13934-1	KN / m	2.5	±10 %
	CD		KN / m	2.5	±10 %
Elongation	MD	ISO13934-1	%	40	±10 %
	CD		%	40	±10 %
Tear Strength	ND	ISO9073-4	N	100	±10 %
	CD		N	100	±10 %
CBR Puncture Strength		ISO12236	KN	0.3	±10 %
Determination of permeability		ISO11058	cm / S	8.0	±10 %

Needle-punched 120g
pet short fiber non-woven

Weight		ISO9073-1	g/m	120	+10 %
Thinness		ISO9073-2	mm	1.0	±10 %
Tensile	MD	ISO13934-1	KN / m	3.0	±10 %
	CD		KN / m	3.0	±10 %
Elongation	MD	ISO13934-1	%	40	±10 %
	CD		%	40	±10 %
Tear Strength	ND	ISO9073-4	N	120	±10 %
	CD		N	120	±10 %
CBR Puncture Strength		ISO12236	KN	0.4	±10 %
Determination of permeability		ISO11058	cm / S	7.0	±10 %

Needle-punched 140g
pet short fiber non-woven

Weight		EN ISO9864	g/m	140	+10 %
Thinness		EN ISO9863-1	mm	1.2	±10 %
Tensile	MD	EN ISO10319	KN / m	4.0	±10 %
	CD		KN / m	4.0	±10 %
Elongation	MD	EN ISO10319	%	40	±10 %
	CD		%	40	±10 %
CBR Puncture Strength		EN ISO12236	KN	0.5	±10 %
Determination of permeability		ISO11058	10^{-3} ms^{-1}	85	±10 %

Needle-punched 180g
pet short fiber non-woven

Weight		EN ISO9864	g/m	180	+10 %
Thinness		EN ISO9863-1	mm	1.5	±10 %
Tensile	MD	EN ISO10319	KN / m	5.5	±10 %
	CD		KN / m	5.5	±10 %
Elongation	MD	EN ISO10319	%	50	±10 %
	CD		%	50	±10 %
CBR Puncture Strength		EN ISO12236	KN	0.8	±10 %
Determination of permeability		ISO11058	10^{-3} ms^{-1}	65	±10 %

Needle-punched 200g
pet short fiber non-woven

Weight		EN ISO9864	g/m	200	+10 %
Thinness		EN ISO9863-1	mm	1.7	±10 %
Tensile	MD	EN ISO10319	KN / m	6.5	±10 %
	CD		KN / m	6.5	±10 %
Elongation	MD	EN ISO10319	%	50	±10 %
	CD		%	50	±10 %
CBR Puncture Strength		EN ISO12236	KN	0.9	±10 %
Determination of permeability		ISO11058	10^{-3} ms^{-1}	55	±10 %

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SINSULATION

