

Lambert® LS Geotextile

Description:

Lambert LS geotextiles are mechanically bonded continuous-filament nonwovens manufactured from UV-stabilised polypropylene. The mechanical properties of Lambert LS guarantee excellent resistance to installation damage, excellent hydraulic properties and outstanding long-term performance.

Use:

Lambert LS is the ideal separation and filter geotextile for civil engineering

- ❖ Full design thickness of the base course is ensured over the working life of the structure by preventing the ingress of fill material into the fine-grained substrata.
- ❖ Compaction of the fill is improved which provides a more uniform load distribution.
- ❖ Stability of the subsoil is increased due to faster consolidation and long-term settlements are reduced.
- ❖ Lambert LS provides balanced mechanical and hydraulic properties, optimized to resist installation damage and maintain filter performance on the one hand and to provide sufficient reinforcement properties to ensure the separation and load distribution effect on the other.

Lambert LS affords drainage systems lasting protection against silting

- ❖ Granular drainage material remains free draining, thus ensuring rapid, effective drainage of the subsoil.
- ❖ Lambert LS provides excellent filter properties with high water permeability and excellent retention of soil particles, even under high loads.

Lambert LS offers high long-term performance

- ❖ The production process (continuous filament extrusion) guarantees the traceable consistent use of highest-quality materials.
- ❖ The raw material polypropylene is resistant to all chemical and biological agents usually occurring in soils and building materials. Polypropylene is insoluble in water thus poses no threat to groundwater quality.
- ❖ The polypropylene used for the production of Lambert LS is equipped with a UV-stabilizer to allow prolonged exposure to sunlight.

Property	Test Standard	Unit	LS 10	LS 15	LS 20	LS 25	LS 30	LS 40	LS 50	LS 60	LS 80
Physical Characteristics	-	-	Continuous filament, nonwoven needle punched								
Polymer	-	-	100% polypropylene, UV stabilized								
Chemical Resistance	-	-	No influence at PH range 2-13								
Tensile strength (ave)	ISO 10319	kN/m	1.0	1.5	2.5	4.5	6.5	8.0	9.5	12.5	16.0
Tensile elongation		%	(25 ~ 100)								
CBR puncture strength	ISO 12236	N	100	300	600	900	1200	1500	2100	2700	3200
Effective opening size (O ₉₀)		mm	(0.07 ~ 0.20)								
Vertical permeability	Calculated	cm/s	(10 ⁻¹ ~ 10 ⁻³)								
Nominal mass	ISO 9864	g/m ²	50	100	150	200	250	300	400	500	600
Thickness (2kPa)	ISO 9863	mm	0.9	1.3	1.7	2.1	2.4	3.0	3.6	4.1	5.0
Rod puncture resistance	ASTM D 4833	kN	0.04	0.08	0.12	0.16	0.20	0.24	0.33	0.42	0.46
Form of supply											
Width		m	5	5	5	5	5	5	5	5	5
Length		m	100	100	100	100	50	50	50	50	50
Area		m ²	500	500	500	500	250	250	250	250	250

The values given are indicative and correspond to average values obtained in our laboratories and testing institutes.

Notes

The information given in this brochure is to the best of our knowledge true and correct, however new research results and practical experience can make revisions necessary. No guarantee or liability can be drawn from the information mentioned therein. Furthermore, it is not our intention to violate any patents or licenses.

Distributor:

AGENCIA COMERCIAL KIN CHEUNG
 AVN. GOV. J. S. MARQUES NO. 253
 R/C "AI" KIN HENG LONG PLAZA
 MACAU
 T : (853) 28424080
 F : (8530) 28424081
 E : info@kincheung.com