



Secutex® GRK Classification

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Non-Woven Geotextile

Technical Information

Product description:

Needle punched non woven geotextiles for road works according to the geotextile robustness classes (GRK) taken from the leaflet AA 5.15

Characteristic Value	Test Method (based on)	Unit	151-GRK 3	201-GRK 3	251-GRK 4	301-GRK 5	351-GRK 5	401-GRK 5
Raw materials			Polypropylene (PP), white					
Mass per unit area	DIN EN 965	g/m ²	150	200	250	300	335	400
Thickness	DIN EN964-1	mm	1.8	2.2	2.5	2.7	3	3.3
Tensile strength (longitudinal)	DIN EN ISO 10319	kN/m	5.0	7.0	10.0	14.0	14.5	18.0
Tensile strength (transverse)	DIN EN ISO 10319	kN/m	8.0	12.0	15.0	21.0	23.0	25.0
Elongation at max. strength (longitudinal)	DIN EN ISO 10319	%	60	60	60	60	60	60
Elongation at max. strength (transverse)	DIN EN ISO 10319	%	40	40	40	40	40	40
Puncture force (mean-standard deviation)	DIN EN ISO 12236	N	1670	1750	2780	3890	4000	4000
Elongation at static puncture strength	DIN EN ISO 12236	%	35	35	35	35	35	35
Effective opening size	DIN E 60500 Part 8	mm	0.15	0.12	0.09	0.09	0.08	0.08
Water permeability coefficient at a load 2kN/m ²	k_v DIN E 60500 Part 4	m/s	9.8×10^{-3}	8.0×10^{-3}	2.9×10^{-3}	4.2×10^{-3}	1.0×10^{-3}	1.0×10^{-3}
	k_h DIN E 60500 Part 7	m/s	9.8×10^{-3}	3.0×10^{-3}	1.7×10^{-3}	3.3×10^{-3}	1.0×10^{-3}	1.0×10^{-3}
** Trapezoidal tear strength long./trans.	ASTM-D-4533	N	150/250	200/300	300/450	400/600	450/650	500/700
** Grab tensile strength long./trans.	ASTM-D-4632	N	250/400	400/600	600/900	800/1200	900/1300	1000/1500
** Puncture force	ASTM-D-4533	N	350	450	600	750	800	800
Bonding method	-	-	needle-punched	needle-punched	needle-punched	needle-punched	needle-punched	needle-punched
Detector tested	-	-	yes	yes	yes	yes	yes	yes
Standard roll dimension	-	-	5.90 x 100	5.90 x 100	5.90 x 100	5.90 x 100	5.90 x 100	5.90 x 100

** = for information only, not included in MQC

Please contact our office for information regarding geotextiles that are not covered in this chart.

The above technical values are average values over the roll width. These data are guiding values achieved in laboratories and independent testing institutes.

Our products can be subject to change without prior notice.

