



Geosynthetics

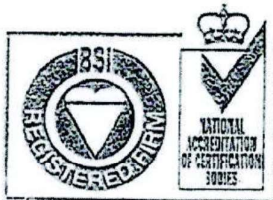


Terram data

Terram - thermally bonded nonwovens

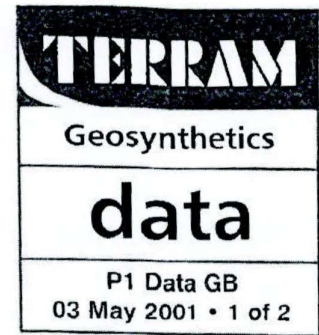
Product grades		500	700	1000	1500	2000	3000	4000
Mechanical properties - control								
Wide width strip tensile								
BS6906 : Part 1 : 1987								
Mean peak strength	kN/m	3.5	5.5	8.0	12.5	14.5	18.0	22.0
Elongation	%	40	25	25	30	30	30	30
CBR puncture resistance								
BS6906 : Part 4 : 1989								
Mean peak strength	N	500	1000	1500	2250	2750	3250	4300
Trapezoidal tear resistance								
ASTM D4533: 1991								
Mean peak strength	N	100	225	300	475	575	700	900
Hydraulic properties - consequential								
Pore size								
BS6906 : Part 2 : 1989								
Mean AOS O_{90}	μm	350	180	100	70	60	50	35
Permeability								
BS6906 : Part 3 : 1989								
Mean Flow rate - 10cm head	$\text{l/m}^2.\text{s}$	130	130	90	60	50	45	40
Physical properties - typical								
Mass per unit area	g/m^2	65	100	135	190	230	270	350
Roll width	m	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Roll length	m	200	150	100	100	100	100	50
Roll weight	kg	65	75	70	95	110	130	85

*The products marked with an asterisk have been manufactured according to BS EN ISO 9002:1994 quality system procedures.

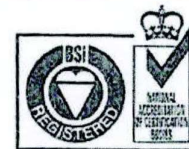


Certificate No: FM 22730

Terram – Thermally Bonded Nonwovens



Product Grades		500	700	900	1000	1300	1500	2000	3000	4000
Mechanical Properties – control										
Wide width strip tensile										
EN ISO 10319										
- Mean peak strength	kN/m	3.0	6.0	7.5	8.0	10.5	12.5	14.5	18.0	22.0
- Elongation at peak strength	%	35	25	28	28	28	30	30	33	33
CBR puncture resistance										
EN ISO 12236										
- Mean peak strength	N	525	1050	1350	1500	2000	2250	2750	3250	4300
Trapezoidal tear resistance										
ASTM D4533										
- Mean peak strength	N	175	225	275	300	425	475	575	700	900
Mechanical Properties - consequential										
Wide width strip tensile										
EN ISO 10319										
- strength at 5% strain	kN/m	1.3	2.6	3.2	3.4	4.3	4.7	5.5	6.3	7.5
Hydraulic Properties - consequential										
Pore size										
EN ISO 12956										
- Mean AOS O ₉₀	μm	300	180	160	150	130	125	110	100	85
Permeability										
EN ISO 11058										
- V _{H50}										
- 5cm head	10 ⁻³ m.s ⁻¹ (l/m ² .s)	150	130	105	100	80	75	65	55	45
Physical Properties - typical										
Mass per unit area EN 965	g/m ²	65	90	115	125	160	180	215	260	335
Roll width	m	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Roll length	m	200	150	150	100	100	100	100	100	50
Roll weight	kg	65	65	85	65	80	90	105	125	80



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