

Mirafi® PET Woven Polyester Geotextiles

Properties of Mirafi® PET Woven Polyester Geotextiles

Property	Unit	PET 100-50	PET 150-50	PET 200-50	PET 300-50	PET 400-50	PET 600-50	PET 800-100	PET 1000-100
Mechanical properties									
Characteristic short term tensile strength	MD kN/m	100	150	200	300	400	600	800	1000
Characteristic short term tensile strength	CD kN/m	50	50	50	50	50	50	100	100
ISO 10319									
Strain at short term strength	MD %	10	10	10	10	10	10	10	10
Partial factor – creep rupture									
at 5 years design life		1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
at 10 years design life		1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
at 60 years design life		1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
at 120 years design life		1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Creep limited strength									
at 5 years design life	MD kN/m	78	117	156	234	313	469	625	781
at 10 years design life	MD kN/m	77	115	154	231	308	462	615	769
at 60 years design life	MD kN/m	71	107	143	214	286	429	571	714
at 120 years design life	MD kN/m	69	103	138	207	276	414	552	690
Partial factor – construction damage									
in clay, silt or sand		1.10	1.10	1.10	1.10	1.10	1.05	1.05	1.05
Partial factor – environmental effects									
in soil environment, pH<11									
not exceeding 10 years design life		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
at 60 years design life		1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
at 120 years design life		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Long term design strengths									
in clay, silt or sand									
at 5 years design life	MD kN/m	71	107	142	213	284	446	595	744
at 10 years design life	MD kN/m	70	105	140	210	280	440	586	733
at 60 years design life	MD kN/m	62	93	124	186	247	389	518	648
at 120 years design life	MD kN/m	57	85	114	171	228	358	478	597
Nominal roll width	m	5	5	5	5	5	5	5	5
Nominal roll length	m	100	100	100	100	100	100	100	100
Estimated roll weight	kg	165	200	250	345	460	630	880	1150

Characteristic denotes the value within the 95% confidence level.

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