

Polyfelt® PEC Reinforcing Geotextiles

Properties of Polyfelt® PEC Reinforcing Geotextiles

Property	Unit	PEC 35	PEC 50	PEC 75	PEC 100	PEC 150	PEC 200	PEC 35/35	PEC 50/50	PEC 75/75	PEC 100/100
Characteristic short term tensile strength (ISO 10319)	MD kN/m	35	50	75	100	150	200	35	50	75	100
Characteristic short term tensile strength (ISO 10319)	CD kN/m	14	14	14	14	14	14	35	50	75	100
Strain at short term strength	MD %	10	10	10	10	10	10	10	10	10	10
Partial factor -creep rupture at 120 years design life		1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Creep limited strength at 120 years design life	kN/m	22.6	32.3	48.4	64.5	96.8	129.0	22.6	32.3	48.4	64.5
Partial factor -construction damage in clay, silt or sand		1.05	1.02	1.00	1.00	1.00	1.00	1.05	1.02	1.00	1.00
Partial factor -environmental effects soil environment, pH <11 at 120 years design life		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Long term design strengths at 120 years design life in clay, silt or sand	kN/m	19.6	28.8	44.0	58.7	88.0	117.3	19.6	28.8	44.0	58.7
Water flow rate normal to the plane (ISO 11058)	mm/s (l/m ² /s)	65	65	65	65	65	65	50	50	50	50
Water flow rate in the plane: 20kPa (ISO 12958)	10 ⁻⁷ m ² /s (l/mh)	30	30	30	30	30	30	30	30	30	30
Nominal mass (ISO 9864)	g/m ²	265	280	300	330	400	480	330	360	400	500
Nominal roll width	m	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Nominal roll length	m	100	100	100	100	100	100	100	100	100	100
Estimated roll weight (+/- 10%)	kg	147	155	165	181	217	259	181	196	217	269

Other forms of supply as well as grades, adjusted to the requirements of specific projects, are available on request.

TenCate Polyfelt® is a registered trademark of TenCate.

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

Further details of this application and products can be obtained by contacting your nearest TenCate Technical Support office.

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