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Geoter F-PET High Strength Geotextile

Geoter F-PET from Texinov is a composite geotextile made with high tenacity PET cables, manufactured by warp knitting process with weft and warp insertion, with a backing of woven PP geotextile to provide enhanced separation, filtration and protection characteristics. It is especially designed for reinforcement of embankments on soft soils, road foundations, and supporting structures, fills and slopes

Tensile Strength MD (min value) can be verified with batch test data for every project
Tensile Strengths which fall between those listed may also be used with the appropriate reduction factors listed here calculated as follows
Tensile Strength MD / (RFCR*RFID*RFD) Contact Cirtex Industries Ltd to verify calculations 0800 247 839

Property	Standard	Unit	F-PET 100/50	F-PET 200/50	F-PET 300/50	F-PET 400/50	F-PET 600/50	F-PET 800/50	F-PET 1000/50	F-PET 1000/100	F-PET 1600/100	F-PET 1800/100
Mechanical Properties												
Tensile Strength MD (min value)	ISO 10319	kN/m	100	200	300	400	600	800	1000	1000	1600	1800
Tensile Strength CD (min value)	ISO 10319	kN/m	50	50	50	50	50	50	50	100	100	100
Nominal strain at initial strength	ISO 10319	%	10	10	10	10	10	10	10	10	10	10
Reduction Factor CR - Creep Rupture @ 20° C												
10 year design life			1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
50 year design life			1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
100 year design life			1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
Reduction Factor ID - Installation damage												
in Clay, Silt, Sand < 5mm			1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
in Aggregates < 100mm			1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Reduction Factor D - Environmental Degradation pH 5 - 8												
for 10 year design life			1	1	1	1	1	1	1	1	1	1
for 50 year design life			1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
for 100 year design life			1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Long Term Design Strength in Clay, Silt, Sand												
10 year design life			64.9	129.9	194.8	259.7	389.6	519.5	649.4	649.4	1039.0	1168.8
50 year design life			59.7	119.4	179.1	238.8	358.3	477.7	597.1	597.1	955.4	1074.8
100 year design life			56.2	112.4	168.7	224.9	337.3	449.8	562.2	562.2	899.5	1012.0
Long Term Design Strength in Aggregates < 100mm												
10 year design life			62.1	124.2	186.3	248.4	372.7	496.9	621.1	621.1	993.8	1118.0
50 year design life			57.1	114.2	171.3	228.5	342.7	456.9	571.1	571.1	913.8	1028.1
100 year design life			53.8	107.6	161.3	215.1	322.7	430.2	537.8	537.8	860.4	968.0

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