



### ACETex® Grades - additional bespoke grades are available

Mechanical Properties	Test Method	Units	GT100	GT200	GT300	GT400	GT500	GT600	GT800	GT1000	GT1200
Characteristic Ultimate Tensile Strength MD (95% confidence level. Mean-0.83 standard deviation)	ISO 10319	kN/m	100	200	300	400	500	600	800	1000	1200
Characteristic Ultimate Tensile Strength CD (95% confidence level. Mean-0.83 standard deviation)	ISO 10319	kN/m	50	50	50	50	50	50	50	50	100
Strain at Short Term UTS MD	ISO 10319	%	10	10	10	10	10	10	10	10	10
<b>Partial Factor - Creep Rupture - fc</b>											
at 5 years design life			1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
at 10 years design life			1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
at 60 years design life			1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
at 120 years design life			1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
<b>Creep Limited Strength MD</b>											
at 5 years design life		kN/m	75	150	226	301	376	451	602	752	902
at 10 years design life		kN/m	74	149	224	299	373	448	597	746	896
at 60 years design life		kN/m	72	145	217	290	362	435	580	725	870
at 120 years design life		kN/m	71	143	214	286	357	429	571	714	857
<b>Partial Factor - Construction Damage - fd</b>											
In clay, silt or sand			1.1	1.1	1.1	1.05	1.05	1.05	1.05	1.05	1.05
<b>Partial Factor - Environmental 2&lt; pH&lt;10 - fe</b>											
not exceeding 10 years design life			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
at 60 years design life			1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
at 120 years design life			1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
<b>Long Term Design Strength (LTDS) are Characteristic 95% confidence values MD - td.</b> In soil type clay, silt or sand (other partial factors will be applicable for other soil gradings).											
at 5 years design life		kN/m	68	137	205	286	358	430	573	716	859
at 10 years design life		kN/m	67	136	204	284	355	426	569	711	853
at 60 years design life		kN/m	64	128	192	268	335	402	536	670	804
at 120 years design life		kN/m	62	124	186	259	324	389	518	648	777
<b>Typical Physical Properties</b>											
<i>Roll lengths: Bespoke lengths to match multiples of embankment width are available from the factory subject to production lead time.</i>	Nominal Roll Size (Width x Length)	m x m	3.8x50	5x50	5x100	5x100	5x100	5x100	5x100	4x100	4x100
	Nominal Roll Mass	kg	57	95	300	400	460	550	750	800	980
	Core inside diameter	mm	65	65	95	95	110	110	110	110	110
Usual Core Type: C = cardboard S = Steel. Can vary to suit client requirements.			C	C	S	S	S	S	S	S	S

ACETex® is a registered trademark of ACE Geosynthetics of Taiwan.

ACETex® is manufactured by ACE Geosynthetics under ISO Certified Quality procedures and tested to international standards through accredited in-house laboratory and independent third party accredited laboratories. ACE hold CE mark approvals for ACETex®.

ACETex® is manufactured using high molecular weight PET yarns with Mn>30,000 and a Carboxyl End Group, CEG of <14 mmol/kg. PET (polyester) geotextiles are unaffected by bacteria and fungi and are resistant to normal soil conditions. High alkaline or high acid conditions should be specifically site tested. ACETex rolls are typically supplied on steel cores for ease of handling and dispensing using a steel mandrel. Small length lighter rolls may be supplied with cardboard cores.

The information contained herein is intended as a general guide to the properties of the product and are not to be considered a design or fit for any particular purpose. GPIL accept no liability for any loss or damage, or consequential damage, however arising, from the direct or indirect use or reliance on such information. The information presented herein and in any supporting documentation or that referenced to in any website is, to the best of our knowledge and belief, correct and is subject to periodic review and revision. The validity of information relative to all necessary engineering or any other conditions must be ascertained by a suitably qualified person. No warranty is either expressed or implied.



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