



ACE GEOSYNTHETICS

ACEGrid®

ACEGrid® is woven from high-tenacity, multifilament polyester yarns and coated with black PVC which can provide best resistance of UV and durability. High-strength, high modulus, low creep behavior all are the advantages of ACEGrid®. ACEGrid® is predominantly used in Mechanically Stabilized Earth (MSE) and Reinforced Soil Slope (RSS) structures.

Product Properties

Physical Properties	Units	GG20-II	GG30-I	GG40-I	GG60-I	GG80-I	Test Method
Material		High Tenacity Polyester Yarn Coated With PVC					
Aperture Size - MD ± 20%	in	1.1	1.0	1.0	0.9	0.9	
Aperture Size - CD ± 20%	in	1.1	1.1	1.1	1.1	1.1	

PET Yarns Properties

Carboxyl End Group(CEG)	mmol/kg	19	19	19	19	19	GRI GG7
Molecular Weight	Mn	31985	31985	31985	31985	31985	GRI GG8

Mechanical Index Properties

Tensile Strength ,T _{ult} - MD min	lb/ft	1369	2053	2737	4106	5475	ASTM D6637
Tensile Strength ,T _{ult} - CD min	lb/ft	1369	2053	2053	2053	2053	ASTM D6637
Elongation - MD	%	≤10	≤10	≤10	≤10	≤10	ASTM D6637
Tensile Strength at 2% Strain- MD min	lb/ft	≥342	≥547	≥684	≥1027	≥1369	ASTM D6637
Tensile Strength at 5% Strain- MD min	lb/ft	≥684	≥1027	≥1369	≥2053	≥2737	ASTM D6637
LTDS (114 yrs), T _{al} -MD	lb/ft	743	1115	1486	2229	2973	

Dimensional Characteristics

Length	yd	54.7/109.4	54.7/109.4	54.7/109.4	54.7/109.4	54.7/109.4	
Width	yd	4.4	4.4	4.4	4.4	4.4	
Area	yd ²	239/479	239/479	239/479	239/479	239/479	
Weight of roll - approx.	lb	97/194	110/220	115/229	137/273	159/317	
20' container capacity - approx.	yd ²	26330	23937	23937	19149	16756	
40' container capacity - approx.	yd ²	52661	47873	47873	38299	33511	
40'HQ container - approx.	yd ²	57448	52661	52661	43086	38299	
40' container /m2 with 3.9m width	yd ²	77016	64055	64055	56012	50267	
40'HQ container /m2 with 3.9m width	yd ²	84018	72187	72187	63073	57328	

NOTES :

1.The values given are indicative and correspond to an average results obtained in our laboratories and testing institutes. The right is reserved to make changes without notice.

2.Information contained in this publication is accurate to the best of the knowledge of ACE Geosynthetics. Any information or advice obtained from ACE Geosynthetics otherwise than by means of this publication and weather relating to ACE Geosynthetics materials or other materials, is also given in good faith. However, it remains at all times, the responsibility of the customer to ensure that ACE Geosynthetics material suitable for the particular purpose intended. Insofar as materials not manufactured or supplied by ACE Geosynthetics are used in conjunction with or instead of ACE Geosynthetics materials, the customer should ensure that he has received from the manufacture or supplier all the technical data and other information relating to such supplied, the application or processing of the products described herein, the use of other materials in lieu of ACE Geosynthetics materials in conjunction with such other materials.



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Product Properties

Physical Properties	Units	GG100-I	GG150-I	GG200-I	GG400-I	GG600-I	Test Method
Material		High Tenacity Polyester Yarn Coated With PVC					
Aperture Size - MD ± 20%	in	0.8	0.8	0.7	0.9	1.6	
Aperture Size - CD ± 20%	in	1.1	1.1	1.1	1.0	0.6	

PET Yarns Properties

		GG100-I	GG150-I	GG200-I	GG400-I	GG600-I	Test Method
Carboxyl End Group(CEG)	mmol/kg	19	19	19	19	19	GRI GG7
Molecular Weight	Mn	31985	31985	31985	31985	31985	GRI GG8

Mechanical Index Properties

		GG100-I	GG150-I	GG200-I	GG400-I	GG600-I	Test Method
Tensile Strength , T_{ult} - MD min	lb/ft	6844	10266	13687	27375	41062	ASTM D6637
Tensile Strength , T_{ult} - CD min	lb/ft	2053	2053	2053	3422	3422	ASTM D6637
Elongation - MD	%	≤10	≤11	≤12	≤14	≤15	ASTM D6637
Tensile Strength at 2% Strain- MD min	lb/ft	≥1711	≥2601	≥3422	≥5475	≥6159	ASTM D6637
Tensile Strength at 5% Strain- MD min	lb/ft	≥3422	≥5133	≥6844	≥10950	≥12319	ASTM D6637
LTDS (114 yrs), T_{al} -MD	lb/ft	3716	5574	7431	14863	22294	

Dimensional Characteristics

		GG100-I	GG150-I	GG200-I	GG400-I	GG600-I
Length	yd	54.7/109.4	54.7/109.4	54.7/109.4	54.7	54.7
Width	yd	4.4	4.4	4.4	4.4	4.4
Area	yd ²	239/479	239/479	239/479	239	239
Weight of roll - approx.	lb	185/370	132/263	479/163	608	938
20' container capacity - approx.	yd ²	15559	13165	10772	7660	5984
40' container capacity - approx.	yd ²	31118	26330	21543	15320	11968
40'HQ container - approx.	yd ²	33511	30639	24236	15320	13405
40' container /m2 with 3.9m width	yd ²	45372	39352	32087	22405	17504
40'HQ container /m2 with 3.9m width	yd ²	50219	44205	36934	22405	19604

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