

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 \pm 20%	mm	27	25	25	24	23	
Aperture Size - CD \pm 20%	mm	28	28	28	28	28	

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	kN/m	20	30	40	60	80	ASTM D6637
Tensile Strength, T_{ult} - CD min	kN/m	20	30	30	30	30	ASTM D6637
Elongation - MD	%	\leq 10	\leq 10	\leq 10	\leq 10	\leq 10	ASTM D6637
Tensile Strength at 2% Strain- MD min	kN/m	\geq 5	\geq 8	\geq 10	\geq 15	\geq 20	ASTM D6637
Tensile Strength at 5% Strain- MD min	kN/m	\geq 10	\geq 15	\geq 20	\geq 30	\geq 40	ASTM D6637
LTDS (114 yrs), T_{al} -MD	kN/m	11	16	22	32	43	

Dimensional Characteristics

Length	m	50/100	50/100	50/100	50/100	50/100	
Width	m	4	4	4	4	4	
Area	m ²	200/400	200/400	200/400	200/400	200/400	
Weight of roll - approx.	kg	44/88	50/100	52/104	62/124	72/144	
20' container capacity - approx.	m ²	22,000	20,000	20,000	16,000	14,000	
40' container capacity - approx.	m ²	44,000	40,000	40,000	32,000	28,000	
40'HQ container - approx.	m ²	48,000	44,000	44,000	36,000	32,000	
40' container /m ² with 3.9m width	m ²	64,350	53,520	53,520	46,800	42,000	
40'HQ container /m ² with 3.9m width	m ²	70,200	60,315	60,315	52,700	47,900	

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%	mm	21	20	19	23	40	
Aperture Size - CD ± 20%	mm	28	28	28	26	15	

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	kN/m	100	150	200	400	600	ASTM D6637
Tensile Strength, T_{ult} - CD min	kN/m	30	30	30	50	50	ASTM D6637
Elongation - MD	%	≤ 10	≤ 11	≤ 12	≤ 14	≤ 15	ASTM D6637
Tensile Strength at 2% Strain- MD min	kN/m	≤ 25	≤ 38	≤ 50	≤ 80	≤ 90	ASTM D6637
Tensile Strength at 5% Strain- MD min	kN/m	≤ 50	≤ 75	≤ 100	≤ 160	≤ 180	ASTM D6637
LTDS (114 yrs), T_{al} -MD	kN/m	54	81	108	216	323	

Dimensional Characteristics

Length	m	50/100	50/100	50/100	50	50	
Width	m	4	4	4	4	4	
Area	m ²	200/400	200/400	200/400	200	200	
Weight of roll - approx.	kg	84/168	110/220	136/272	276	426	
20' container capacity - approx.	m ²	13,000	11,000	9,000	6,400	5,000	
40' container capacity - approx.	m ²	26,000	22,000	18,000	12,800	10,000	
40'HQ container - approx.	m ²	28,000	25,600	20,250	12,800	11,200	
40' container /m ² with 3.9m width	m ²	37,910	32,880	26,810	18,720	14,625	
40'HQ container /m ² with 3.9m width	m ²	41,960	36,935	30,860	18,720	16,380	

Notes :

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