



ACEGrid® GG-Series is woven by high-tenacity, multifilament polyester yarns and coated with durable polymer which provides the best resistance of UV and durability. ACEGrid® GG-Series provides a wide range of strength with high quality advantages - high tensile modulus and low creep behaviors etc. ACEGrid® GG-Series is suitable to stabilize the earth structures, such as MSE Wall or Steep Slope, Road, Bridge or Pavement Construction.

Product Properties

Physical Properties	Test Method	Unit	GG20-II	GG40-II	GG60-II	GG80-II	GG100-II	GG150-II	GG200-II
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Material	High Tenacity Polyester Yarns Coated with Durable Polymer								
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Aperture Size - MD ± 20%		mm (inch)	27 (1.1)	25 (1.0)	22 (0.9)	23 (0.9)	21 (0.8)	22 (0.9)	28 (1.1)
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Aperture Size - CD ± 20%		mm (inch)	28 (1.1)	28 (1.1)	24 (0.9)	25 (1.0)	24 (0.9)	24 (0.9)	24 (0.9)
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PET Yarn Properties

Carboxyl End Group (CEG)	GRI GG7	mmol/kg	<30	<30	<30	<30	<30	<30	<30
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Molecular Weight	GRI GG8	Mn	>25000	>25000	>25000	>25000	>25000	>25000	>25000
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Mechanical Index Properties

Tensile Strength , T_{ult} - MD min	ASTM D6637 ISO 10319	kN/m (lb/ft)	20 (1369)	40 (2737)	60 (4106)	80 (5475)	100 (6844)	150 (10266)	200 (13687)
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Tensile Strength , T_{ult} - CD min	ASTM D6637 ISO 10319	kN/m (lb/ft)	20 (1369)	40 (2737)	60 (4106)	80 (5475)	100 (6844)	150 (10266)	200 (13687)
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Elongation - MD	ASTM D6637 ISO 10319	%	10	10	10	10	11	12	13
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Elongation - CD	ASTM D6637 ISO 10319	%	10	10	10	10	11	13	14
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Tensile Strength at 5% Strain- MD min	ASTM D6637 ISO 10319	kN/m (lb/ft)	10 (684)	20 (1369)	30 (2053)	40 (2737)	40 (2737)	60 (4106)	80 (5475)
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Tensile Strength at 5% Strain- CD min	ASTM D6637 ISO 10319	kN/m (lb/ft)	10 (684)	16 (1095)	24 (1642)	30 (2053)	36 (2464)	46 (3148)	56 (3832)
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Long Term Design Strength , T_{al}^2	FHWA NHI 00-043	kN/m (lb/ft)	12 (821)	24 (1642)	36 (2464)	48 (3285)	60 (4106)	91 (6228)	121 (8281)
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Dimensional Characteristics

Width		m (yd)	3.9 (4.3)	3.9 (4.3)	3.9 (4.3)	3.9 (4.3)	3.9 (4.3)	3.9 (4.3)	3.9 (4.3)
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Length		m (yd)	50/100 (55/109)	50/100 (55/109)	50/100 (55/109)	50/100 (55/109)	50 (55)	50 (55)	50 (55)
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Note.

1. ACEGrid® biaxial geogrid is available in range from 20kN/m to 300kN/m, and the maximum width is up to 5m.
2. LTDS (Long-Term Design Strength) of ACEGrid® is calculated based on FHWA-NHI-00-043. The long-term design strength is determined by compounding the reduction factors for creep, installation damage, and environmental effects.
3. The values given are indicative and correspond to MARV obtained in ACE laboratory. The right is reserved to make changes without notice.

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 We'll be pleased to provide our best assistance.

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