

ArmaGrid - UX PET

ArmaGrid – UX_{PET} is a knitted polyester Geogrid providing tensile reinforcement capacity in one direction. Arma Grid – $\operatorname{UX}_{\operatorname{PET}}$ is best suited for demanding soil reinforcement applications.

Applications

- Steep Slopes: Used as soil reinforcement for reinforced soil steep slopes and embankments.
- Basal Reinforcement: ArmaGrid UX_{PET} improves the stability of soft sub-soils by interacting with engineered fill and providing a strong mattress foundation for embankments and platforms.
- Foundation Improvement: ArmaGrid UX_{PET} is used to support shallow structural foundations, by improving stability, enhancing load distribution and reducing differential settlement.

Technical Parameters

Properties	Test Method	Units	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}	AG-UX _{PET}
			Minimum Average Roll Value (MARV)									
Physical Properties												
Material		Polyester										
Mechanical Properties												
Ultimate Tensile Strength in Machine Direction	ASTM D 6637B	kN/m	40	60	80	100	120	150	180	200	250	300
UltimateTensile Strength in Cross Machine Direction		kN/m	20	20	30	30	30	30	30	30	30	30
Elongation at Designated Strength (±2%)		%	10	10	10	10	10	10	10	11	11	11
Tensile Strength at 5% Strain (±5%)			20	30	40	50	60	75	81	90	100	120
Creep Reduction Factor (114 Years Design Life)	ASTM D 6637A	at 20°C	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
		at 30°C	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
Partial Factor - Installation Damage	ASTM D 5818	Particle size < 10mm (Silty Sand)	1.10	1.10	1.02	1.02	1.02	1.06	1.06	1.06	1.06	1.06
		Particle size < 19mm (Gravely Sand)	1.12	1.12	1.06	1.06	1.04	1.10	1.10	1.10	1.10	1.10
		Particle size < 75mm (Sandy Gravel)	1.19	1.19	1.16	1.16	1.11	1.11	1.11	1.11	1.11	1.11
Partial Factor - Environmental Effects	GRI-GG7, GRI-GG8 Environment	4 < pH < 9	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Standard Packaging												
Roll Width ⁱⁱ		m	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Roll Length ⁱⁱ		m	100	100	100	100	100	100	100	100	100	100
Roll Area ⁱⁱ		m²	380	380	380	380	380	380	380	380	380	380
Weight Per Roll ⁱⁱⁱ		kg	90.5	112.9	138.4	157.8	182.1	199.2	232.6	246.7	287	315

¹ All the values mentioned are of minimum average roll values (MARV).

- A. All prescribed values are minimum unless otherwise mentioned and tested in GAI-LAP accredited laboratories.
- B. These properties may change at the time of handling, storage and shipping.
- C. Roll weights are average values including shipping cores. Actual roll weight may vary. D. Customized rolls with varying lengths or master rolls can be manufactured.
- E. The above values are subject to change as per discretion of the company.

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These values are subject to ±1% variation

iii Other roll sizes available