

TABLE A – TENSAR GEOGRID PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	UNITS	BX 1100	BX 1200
Geometry				
Aperture Size MD ¹	I.D. Calipered ²	in / (mm)	1.00 / (25)	1.00 / (25)
CMD ¹	I.D. Calipered ²	in / (mm)	1.30 / (33)	1.30 / (33)
Open Area	COE Method ³ CW-02215	%	70	70
Rib Thickness	Calipered	in / (mm)	0.03 / (0.76)	0.05 / (1.27)
Rib Shape	Observation	N/A	Rectangular or Square	Rectangular or Square
Structural Integrity				
Torsional Rigidity (Aperture Stability Modulus) @ 20 cm-kg	COE METHOD ⁴	cm-kg/deg.	3.2 ⁵	6.5 ⁵
Flexural Rigidity (Stiffness) MD	ASTM D1388-96 ⁶	Mg-cm	250,000	750,000
Tensile Strength MD	ASTM D6637-01 ⁸	lb/ft / (kN/m)	280 / (4.1)	410 / (6.0)
CMD	ASTM D6637-01 ⁸	lb/ft / (kN/m)	450 / (6.6)	590 / (8.6)
True Initial Modulus (min.) MD	ASTM D6637-01 ⁸	lb/ft / (kN/m)	17,140 / (250)	27,420 / (400)
CMD	ASTM D6637-01 ⁸	lb/ft / (kN/m)	27,420 / (400)	44,550 / (650)
Junction Strength MD	GRI GG2-87 ⁷	lb/ft	765	1080
CMD	GRI GG2-87 ⁷	lb/ft	1170	1778
Junction Efficiency	GRI GG2-87 ⁷	%	93	93
Durability				
Resistance to Installation Damage	ASTM D5818	%SC/%SW/%G P	90/83/70	91/83/71
Resistance to Long Term Degradation	ASTM D5818 EPA 9090	%	100	100
Material				
Polypropylene	ASTM D4101 Group 1/Class 1/Grade 2	%	98	98
Carbon Black	ASTM 4218	%	0.5	0.5