

TerraGrid® RX1100

TerraGrid® integrally formed biaxial geogrids are composed of high-quality polypropylene resin and carbon black with no inclusion of postconsumer recycled materials. The punched and drawn process produces the following interrelated characteristics.

Property	Test Method	English	Metric
GEOMETRIC ^{1,12}			
Aperture Size	Measured	0.9 x 1.3 in	23 x 30 mm
Rib Depth	Measured	0.04 x 0.03 in	1.0 x 0.76 mm
Aperture Shape	Observed	Rectangular	Rectangular
Aperture Open Area	Measured	73 %	73 %
Rib Shape	Observed	Rectangular	Rectangular
MECHANICAL ^{2,3,12}			
Tensile Strength (Ultimate)	ASTM D6637	850 x 1,300 lbs/ft	12.4 x 19.0 kN/m
Tensile Load @ 2% Strain	ASTM D6637	280 x 450 lbs/ft	4.1 x 6.6 kN/m
Tensile Load @ 5% Strain	ASTM D6637	580 x 920 lbs/ft	8.5 x 13.4 kN/m
Junction Efficiency ^{4,5}	ASTM D7737	93 %	93 %
Flexural Rigidity ⁶	ASTM D7748	250,000 mg-cm	250,000 mg-cm
Aperture Stability ⁷	ASTM D7864	0.32 m-N/deg	0.32 m-N/deg
DURABILITY ^{1,12}			
UV Degradation Resistance ^{8,10}	ASTM D4355	100 %	100 %
Carbon Black Content	ASTM D1603	0.5 %	0.5 %
Chemical Damage Resistance ^{9,10,12}	EPA 9090A	100 %	100 %
Installation Damage Resistance ^{10,11}	ASTM D5818/D6637	SC-95/SW-95/GP-90	SC-95/SW-95/GP-90
STANDARD PACKAGING ^{1,12}			
Width		12.5 ft	3.81 m
Length		328 ft	100 m
Area		456 SY	381 m ²

1. All geometric properties are nominal values and may vary.
2. All mechanical properties are based on the manufacturer's laboratory test results at 21±1°C.
3. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759.
4. Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample.
5. ASTM D7737 performed at 10% per minute strain rate.
6. Using specimens 2 ribs wide with ribs transverse to the specimen cut flush with the exterior edges of the ribs in the direction of the specimen.
7. Resistance to in-plane rotational moment of 20 kg-cm.
8. 500 hour exposure.
9. 120 day immersion testing.
10. Expressed as a percentage of Ultimate Tensile Strength.
11. Silty Sand (SM), Graded Aggregate Base (GP-GM), and AASHTO NO.57 (GP)
12. Hanes Geo reserves the right to change this specification at any time. The user is responsible to verify/use/reference the latest Product Data Sheet.

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