

TerraGrid® SX2020

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

Property	Test Method	English	Metric
GEOMETRIC			
Aperture Size	Measured	1.3 x 1.3 in	33 x 33 mm
Rib Depth	Measured	0.05 x 0.045 in	1.27 x 1.14 mm
Aperture Shape	Observed	Square	Square
Aperture Open Area	Measured	75 %	75 %
Rib Shape	Observed	Rectangular	Rectangular
MECHANICAL			
Tensile Strength (Ultimate)	ASTM D6637	1,370 x 1,370 lbs/ft	20.0 x 20.0 kN/m
Tensile Load @ 2% Strain	ASTM D6637	480 x 480 lbs/ft	7.0 x 7.0 kN/m
Tensile Load @ 5% Strain	ASTM D6637	960 x 960 lbs/ft	14.0 x 14.0 kN/m
Junction Efficiency ^{4,5}	ASTM D7737	93 %	93 %
Flexural Rigidity ⁶	ASTM D7748	750,000 mg-cm	750,000 mg-cm
Aperture Stability ⁷	ASTM D7864	0.50 m-N/deg	0.50 m-N/deg
DURABILITY			
UV Degradation Resistance ^{8,10}	ASTM D4355	100 %	100 %
Carbon Black Content	ASTM D1603	2.0 %	2.0 %
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			
Width		12.5 ft	3.81 m
Length		246 ft	75 m
Area		342 SY	286 m ²

1. All geometric properties are nominal values and may vary.
2. 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.
3. All mechanical properties are based on the manufacturer's laboratory test results at 21±1°C.
4. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759.
5. Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample.
6. ASTM D7737 performed at 10% per minute strain rate.
7. 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.
8. Resistance to in-plane rotational moment of 20 kg-cm.
9. 500 hour exposure.
10. Expressed as a percentage of Ultimate Tensile Strength.
11. 120 day immersion testing.
12. Silty Sand (SM), Graded Aggregate Base (GP-GM), and AASHTO NO.57 (GP)

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