

# TerraGrid® SX2020

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
<b>GEOMETRIC</b> <sup>1,12</sup>			
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
<b>MECHANICAL</b> <sup>2,3,12</sup>			
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 <sup>4,5</sup>	ASTM D7737	93 %	93 %
Flexural Rigidity <sup>6</sup>	ASTM D7748	750,000 mg-cm	750,000 mg-cm
Aperture Stability <sup>7</sup>	ASTM D7864	0.50 m-N/deg	0.50 m-N/deg
<b>DURABILITY</b> <sup>1,12</sup>			
UV Degradation Resistance <sup>8,10</sup>	ASTM D4355	100 %	100 %
Carbon Black Content	ASTM D1603	2.0 %	2.0 %
Chemical Damage Resistance <sup>9,10,12</sup>	EPA 9090A	100 %	100 %
Installation Damage Resistance <sup>10,11</sup>	ASTM D5818/D6637	SC-95/SW-95/GP-90	SC-95/SW-95/GP-90
<b>STANDARD PACKAGING</b> <sup>1,12</sup>			
Width		12.5 ft	3.81 m
Length		246 ft	75 m
Area		342 SY	286 m <sup>2</sup>

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.

**DISCLAIMER:** Descriptions regarding the products described herein are based solely upon information provided by the manufacturer and are provided for informational purposes only. **NOTHING CONTAINED HEREIN SHOULD BE CONSTRUED AS CREATING AN EXPRESSED OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, EACH OF WHICH IS HEREBY DISCLAIMED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.** The final determination as to the suitability of any product of Hanes Geo Components in any particular application rests solely with the user. Hanes Geo Components reserves the right to alter or modify its products and descriptions at any time without notice.