

## TerraGrid® SX2020

### Product Data Sheet

#### Hanes Geo Product #32163

**TerraGrid SX2020** is produced in an ISO 9001 certified facility and manufactured from quality polypropylene resin with no inclusion of post-consumer recycled resin. The punched and stretched (drawn) manufacturing process used for **SX2020** produces the following interrelated characteristics.

PROPERTY	PROCEDURE	U.S. Standard		Metric	
		MD	XMD	MD	XMD
<b>Geometric<sup>1</sup></b>					
Aperture Shape	Observed	Rectangular			
Aperture Open Area	Measured	73%			
Aperture Size (opening)	Measured	1.3 inch	1.3 inch	33 mm	33 mm
Rib Depth (height or thickness)	Measured	0.05 inch	0.045 inch	1.27 mm	1.14 mm
Rib Width	Measured	0.10 inch	0.10 inch	2.5 mm	2.5 mm
Rib Shape (cross section)	Observed	Rectangular			
<b>Mechanical<sup>2</sup></b>					
Tensile Strength - Ultimate	ASTM D6637 Procedure B	1,370 lbs/ft	1,370 lbs/ft	20.0 kN/m	20.0 kN/m
Tensile Load @ 2% Strain		480 lbs/ft	480 lbs/ft	7.0 kN/m	7.0 kN/m
Tensile Load @ 5% Strain		960 lbs/ft	960 lbs/ft	14.0 kN/m	14.0 kN/m
Junction Efficiency <sup>3</sup>	ASTM D7737/D6637	93%			
Junction Strength	ASTM D7737	1,280 lbs/ft	1,280 lbs/ft	18.7 kN/m	18.7 kN/m
		165 lbs/rib	160 lbs/rib	0.734 kN/rib	0.712 kN/rib
Flexural Rigidity	ASTM D7748	750,000 mg-cm			
Aperture Stability	U.S. Army COE	5.1 cm-kg/deg = 0.50 m-N/deg			
<b>Durability<sup>1</sup></b>					
UV Degradation Resistance <sup>4,8</sup>	ASTM D4355/D6637	100%			
Carbon Black Content <sup>5</sup>	ASTM D1603	2.0%			
Chemical Damage Resistance <sup>6,8</sup>	EPA 9090A	100%			
Installation Damage Resistance <sup>7,8</sup>	ASTM D5818/D6637	SM ≥ 100%, GP-GM ≥ 100%, GP ≥ 95%			
<b>Standard Packaging</b>	<b>Width</b>	<b>Length</b>	<b>Area</b>		
	13 ft	164 ft	237 yd <sup>2</sup>		

**Footnotes:**

- <sup>1</sup> Nominal value(s)
- <sup>2</sup> Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02.
- <sup>3</sup> Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample
- <sup>4</sup> 500 hour exposure
- <sup>5</sup> Second burn conducted at 800° C
- <sup>6</sup> 120 day immersion
- <sup>7</sup> Materials characterized as Silty Sand (SM), Graded Aggregate Base (GP-GM) and AASHTO No. 57 (GP)
- <sup>8</sup> Expressed as a percentage of Ultimate Tensile Strength

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