

TerraGrid® SX1515

Product Data Sheet

Hanes Geo Product #32162

TerraGrid SX1515 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 **SX1515** produces the following interrelated characteristics.

PROPERTY	PROCEDURE	U.S. Standard		Metric	
		MD	XMD	MD	XMD
Geometric¹					
Aperture Shape	Observed	Square			
Aperture Open Area	Measured	75%			
Aperture Size (opening)	Measured	1.3 inch	1.3 inch	33 mm	33 mm
Rib Depth (height or thickness)	Measured	0.04 inch	0.04 inch	1.0 mm	0.76 mm
Rib Width	Measured	0.10 inch	0.10 inch	2.5 mm	2.5 mm
Rib Shape (cross section)	Observed	Rectangular			
Mechanical²					
Tensile Strength - Ultimate	ASTM D6637 Procedure B	1,030 lbs/ft	1,030 lbs/ft	15.0 kN/m	15.0 kN/m
Tensile Load @ 2% Strain		350 lbs/ft	350 lbs/ft	5.1 kN/m	5.1 kN/m
Tensile Load @ 5% Strain		700 lbs/ft	700 lbs/ft	10.2 kN/m	10.2 kN/m
Junction Efficiency ³	ASTM D7737/D6637	93%			
Junction Strength	ASTM D6637	970 lbs/ft	970 lbs/ft	14.2 kN/m	14.2 kN/m
		115 lbs/rib	115 lbs/rib	0.51 kN/rib	0.51 kN/rib
Flexural Rigidity	ASTM D7748	250,000 mg-cm			
Aperture Stability	U.S. Army COE	3.2 cm-kg/deg = 0.31 m-N/deg			
Durability¹					
UV Degradation Resistance ^{4,8}	ASTM D4355/D6637	100%			
Carbon Black Content ⁵	ASTM D1603	2.0%			
Chemical Damage Resistance ^{6,8}	EPA 9090A	100%			
Installation Damage Resistance ^{7,8}	ASTM D5818/D6637	SM ≥ 100%, GP-GM ≥ 100%, GP ≥ 95%			
Standard Packaging	Width	Length	Area	Roll widths of up to 16.4' (5.0m) available. Contact <i>Hanes Geo Components</i> for details.	
	13 ft	328 ft	474 yd ²		

Footnotes:

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

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