

TerraGrid® RX4100 Product Data Sheet

TerraGrid RX4100 is an integrally formed biaxial geogrid composed of quality polypropylene and carbon black with no inclusion of post-consumer recycled resin. The punched and drawn (stretched) manufacturing process for **TerraGrid RX4100** produces the following interrelated characteristics.

PROPERTY	PROCEDURE	TerraGrid RX4100 ^{1,3}			
		MD	TD	MD	TD
Geometric²					
Aperture Size	Measured	1.3 inch	1.3 inch	33 mm	33 mm
Rib Depth (Height or Thickness)	Measured	0.03 inch	0.03 inch	0.76 mm	0.76 mm
Mechanical³					
Tensile Strength - Ultimate	ASTM D6637 Method A	880 lbs/ft	920 lbs/ft	12.8 kN/m	13.5 kN/m
Tensile Load @ 2% Strain		270 lbs/ft	380 lbs/ft	4.0 kN/m	5.5 kN/m
Tensile Load @ 5% Strain		550 lbs/ft	720 lbs/ft	8.0 kN/m	10.5 kN/m
Junction Efficiency	ASTM D7737	93%		93%	
Flexural Stiffness ⁴	ASTM D7748	250,000 mg-cm		250,000 mg-cm	
Aperture Stability ⁵	GRI-GG9	0.28 m-N/deg		0.28 m-N/deg	
Durability²					
UV Degradation Resistance ⁶	ASTM D4355	100%		100%	
Chemical Damage Resistance ⁷	EPA 9090A	100%		100%	
Installation Damage Resistance ⁸	ASTM D5818/D6637	SC ≥ 91%		SC ≥ 91%	
		SW ≥ 83%		SW ≥ 83%	
		GP ≥ 72%		GP ≥ 72%	
	Standard Packaging	Width	Length	Width	Length
		13 ft	246 ft	4 m	75 m

Footnotes:

¹ The values presented on this Product Data Sheet are applicable to product shipped after December 31, 2014. The geogrid specified herein has not been tested, calibrated or validated in relation to any design methodology for either unpaved or flexible pavements. The manufacturer reserves the right to alter or modify products and descriptions without prior notice.
² Nominal dimensions
³ Unless otherwise indicated, values shown are minimum average roll values determined in accordance with ASTM D4759-02
⁴ Resistance to bending force determined in accordance with ASTM D7748-12, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs, and of length sufficiently long to enable measurement of the overhang dimension
⁵ Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with GRI GG9
⁶ Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with D4355-05
⁷ Resistance to loss or load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
⁸ Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818 and load capacity shall be determined in accordance with ASTM D6637.

TerraGrid is a registered trademark of Leggett & Platt, Inc.

***DISCLAIMER:** Hanes Geo Components warrants that the product characterized on this Product Data Sheet, when delivered, shall conform to the specifications described herein, and will replace the product or refund the purchase price upon notice of defect made within sixty days of delivery and prior to installation. **ALL OTHER WARRANTIES, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.** The final determination as to the suitability of the product in any particular application rests solely with the purchaser. Hanes Geo Components reserves the right to alter or modify its products and descriptions at any time without notice.