

TerraGrid® RX1100 Product Data Sheet

TerraGrid RX1100 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 RX1100** produces the following interrelated characteristics.

PROPERTY	PROCEDURE	TerraGrid RX1100 ^{1,3}			
		MD	TD	MD	TD
Geometric²					
Aperture Size	Measured	0.9 inch	1.2 inch	23 mm	30 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	850 lbs/ft	1,300 lbs/ft	12.4 kN/m	19.0 kN/m
Tensile Load @ 2% Strain		280 lbs/ft	450 lbs/ft	4.1 kN/m	6.6 kN/m
Tensile Load @ 5% Strain		580 lbs/ft	920 lbs/ft	8.5 kN/m	13.4 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	0.32 m-N/deg		0.32 m-N/deg	
Durability					
UV Degradation Resistance ^{2,6}	ASTM D4355	100%		100%	
	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 values
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

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

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