



510 N. 25<sup>th</sup> Street, Blackwell, OK 74653  
 P: 580-722-2100

# Product Data Sheet

## RX1100 Geogrid

**Product Description:** Integrally formed, Polypropylene Biaxial Geogrid made in Blackwell, Oklahoma

PROPERTY	PROCEDURE	U.S. Standard		Metric	
		MD	XMD	MD	XMD
<b>Geometric<sup>1</sup></b>					
Aperture Shape	Observed	Rectangular			
Aperture Dimensions	Measured	1.0 in	1.3 in	25 mm	33 mm
Rib Thickness	Measured	0.03 in	0.03 in	0.76 mm	0.76 mm
<b>Mechanical<sup>2,3</sup></b>					
Tensile Strength-Ultimate	ASTM D6637 Procedure B	850 lbs/ft	1,300 lbs/ft	12.4 kN/m	19.0 kN/m
Tensile Strength @2% Strain		280 lbf/ft	450 lbf/ft	4.1 kN/m	6.6 kN/m
Tensile Strength @5% Strain		580 lbf/ft	920 lbf/ft	8.5 kN/m	13.4 kN/m
Junction Efficiency <sup>4,5</sup>	ASTM D7737/D6637	93%			
Flexural Stiffness <sup>6</sup>	ASTM D7748	250,000 mg-cm			
Aperture Stability <sup>7</sup>	ASTM D7864	0.32 m-N/deg			
<b>Durability</b>					
UV Degradation Resistance <sup>1,8,10</sup>	ASTM D4355/D6637	100%			
Carbon Black Content	ASTM D1603	0.5%			
Chemical Damage Resistance <sup>1,9,10</sup>	EPA 9090A	100%			

**Notes:**

- All geometric properties are Nominal Values and may vary.
- All mechanical properties are based on the manufacturer's laboratory test results at 21 ± 1°C.
- Unless indicated otherwise, values shown are minimum average roll values determinate in accordance with ASTM D4759.
- Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample.
- ASTM D7737 performed at 10% per minute strain rate.
- 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.
- Resistance to in-plane rotational moment of 20 kg-cm.
- 500 hour exposure.
- 120 day immersion testing.
- Expressed as a percentage of Ultimate Tensile Strength
- BOSTD America reserves the right to change this product specification at any time. The user is responsible to verify use/reference of the latest Product Data Sheet. Contact BOSTD America to obtain the latest Product Data Sheet.