



510 N. 25th Street, Blackwell, OK 74653
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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 |
| Geometric¹ | | | | | |
| 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 |
| Mechanical^{2,3} | | | | | |
| 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 ^{4,5} | ASTM D7737/D6637 | 93% | | | |
| Flexural Stiffness ⁶ | ASTM D7748 | 250,000 mg-cm | | | |
| Aperture Stability ⁷ | ASTM D7864 | 0.32 m-N/deg | | | |
| Durability | | | | | |
| UV Degradation Resistance ^{1,8,10} | ASTM D4355/D6637 | 100% | | | |
| Carbon Black Content | ASTM D1603 | 0.5% | | | |
| Chemical Damage Resistance ^{1,9,10} | 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.