

TerraGrid® SX3030

Product Data Sheet

Hanes Geo Product #32164

TerraGrid SX3030 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 **SX3030** produces the following interrelated characteristics.

| PROPERTY | PROCEDURE | U.S. Standard | | Metric | |
|---|---------------------------|-----------------------------------|-----------------------------|--------------------------|--------------------------|
| | | MD | XMD | MD | XMD |
| Geometric¹ | | | | | |
| Aperture Shape | Observed | Square | | | |
| Aperture Open Area | Measured | 73% | | | |
| Aperture Opening Size | Measured | 1.3 inch | 1.3 inch | 33.0 mm | 33 mm |
| Rib Pitch (spacing c/c) | | 1.4 inch | 1.4 inch | 35 mm | 35 mm |
| Rib Depth (height or thickness) | Measured | 0.09 inch | 0.06 inch | 2.3 mm | 1.5 mm |
| Rib Width | Measured | 0.11 inch | 0.11 inch | 2.8 mm | 2.8 mm |
| Rib Shape (cross section) | Observed | Rectangular | | | |
| Mechanical² | | | | | |
| Tensile Strength - Ultimate | ASTM D6637 Procedure B | 2,055 lbs/ft | 2,055 lbs/ft | 30.0 kN/m | 30.0 kN/m |
| Tensile Load @ 2% Strain | | 720 lbs/ft | 720 lbs/ft | 10.5 kN/m | 10.5 kN/m |
| Tensile Load @ 5% Strain | | 1,440 lbs/ft | 1,440 lbs/ft | 21.0 kN/m | 21.0 kN/m |
| Junction Efficiency ³ | ASTM D7737/D6637 | 93% | | | |
| Junction Strength | ASTM D7737 | 1,950 lbs/ft 220 lbs/rib | 1,950 lbs/ft 220 lbs/rib | 27.7 kN/m 0.98 kN/rib | 27.7 kN/m 0.98 kN/rib |
| Flexural Rigidity | ASTM D7748 | 2,000,000 mg-cm | | | |
| Aperture Stability | U.S. Army COE | 7.6 cm-kg/deg = 0.75 m-N/deg | | | |
| Durability¹ | | | | | |
| UV Degradation Resistance ^{4,6} | 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 | | |
| | 13 ft | 164 ft | 237 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 emersion
- 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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