



Unit Panel Specifications:

Size: 32" x 32" x 1"
Weight: 3.1 lb
Strength: 233 psi (unfilled)

Resin: 100% Recycled (PIR)
Copolymer with Impact Modifier
"No Break" Polymer Material

Color: Black
(3% carbon black added for UV Protection)

AirDrain Cross Section

Scale 0.12:1

Typical

For AirDrain Grass Systems



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Drawing No. ADCS002.dwg

| General Information | | | |
|---|--|-------------------|---------|
| General | | | |
| Construction | Injection Molded Copolymer | | |
| Composition | Copolymer Polypropylene Using an Impact Modifier | | |
| Dimensions | 31.784" x 31.880" x 1.000" (7.03 sq ft.) | | |
| Unit Weight | 3.1 lbs. | | |
| Material | Resin Pellets | | |
| Shipping | | | |
| Parts Per Pallet | 114 | | |
| Pallet Dimensions | 33" x 33" x 48" | | |
| Pallet Weight | 390 lbs. | | |
| Area Coverage Per Pallet | 798 sq. ft. | | |
| Pallets Per Trailer | 114 (3 wide x 2 tall x 19 deep) | | |
| Area Covered Per Trailer | 90,972 sq. ft. | | |
| ASTM and ISO Properties ¹ | | | |
| Physical | Nominal Value | Test Method | |
| Specific Gravity | 0.940 | ASTM D792 | |
| Melt Mass-Flow Rate (230°C/2.16 kg) | 20 g/10 min | ASTM D1238 | |
| Mechanical | Nominal Value | Test Method | |
| Density | 57.490 lb/ft ³ | ASTM D1505 | |
| Tensile Strength (Yield, 73°F) | 2,145 psi | ASTM D638 | |
| Tensile Elongation (Yield, 73°F) | 16% | ASTM D638 | |
| Flexural Modulus (73°F) | 100,175 psi | ASTM D790 | |
| Compression Strength (73°F) | 233 psi unfilled | ASTM D6254 | |
| Impact | Nominal Value | Test Method | |
| Notched Izod Impact (73°F, 0.125 in) | | ASTM D256 | |
| Thermal | Nominal Value | Test Method | |
| Deflection Temperature Under Load 264 psi, Unannealed | 160°F | ASTM D648 | |
| Expansion/Contraction Index ¹ | | | |
| Temperature | Humidity | Length | Width |
| 100°F | 98% | 31.881" | 31.817" |
| -5°F | 0% | 31.765" | 31.713" |
| Change | | .116" | .104" |
| Joint Expansion/Contraction Capacity | | .420" | .572" |
| Safety Factor | | 362% | 550% |
| Examples of Usage | | | |
| Application | Required Strength | Safety Factor | |
| Auto | 40 psi | x 168 | |
| Truck | 110 psi | x 61 | |

¹ Independent laboratory testing conducted by TRI/Environmental, Inc., TSI/Testing Services, Inc. and Wassenaar.