

## MACGRID® EG POLYPROPYLENE EXTRUDED BI-AXIAL GEOGRIDS

MACGRID® EG geogrids are high modulus polypropylene geogrids, produced by an extrusion process characterized by a tensile resistance both in the longitudinal and in the transverse direction. They are inert to all chemical existing in natural soils. MACGRID® EG are mainly used for “soil stabilization” and for some kinds of soil reinforcements applications.

| MACGRID EG                     | Test Method      | Unit  | 15S                              |     | 20S       |    | 25S       |     | 30S       |      | 40S        |    |
|--------------------------------|------------------|-------|----------------------------------|-----|-----------|----|-----------|-----|-----------|------|------------|----|
| Mechanical Properties          |                  |       | MD                               | TD  | MD        | TD | MD        | TD  | MD        | TD   | MD         | TD |
| Ultimate Tensile Strength      | ASTM D6637       | kN/m  | 15                               | 15  | 20        | 20 | 25        | 25  | 30        | 30   | 40         | 40 |
| Tensile strength at 2% strain  | ASTM D6637       | kN/m  | 5                                | 5   | 7         | 7  | 9         | 9   | 10.5      | 10.5 | 14         | 14 |
| Tensile strength at 5% strain  | ASTM D6637       | kN/m  | 7                                | 7   | 14        | 14 | 17        | 17  | 21        | 21   | 28         | 28 |
| Strain @ ultimate strength     | ASTM D6637       | %     | 13                               | 13  | 13        | 13 | 13        | 13  | 13        | 13   | 13         | 13 |
| Junction Efficiency            | GRI GG2          | %     | 93                               | 93  | 93        | 93 | 93        | 93  | 93        | 93   | 93         | 93 |
| Flexural Rigidity              | ASTM D1388 (mod) | mg-cm | 650,000                          | -   | 1,000,000 | -  | 2,000,000 | -   | 3,500,000 | -    | 10,000,000 | -  |
| Physical - Chemical Properties |                  |       |                                  |     |           |    |           |     |           |      |            |    |
| Structure                      |                  |       | Extruded Biaxial                 |     |           |    |           |     |           |      |            |    |
| Polymer                        |                  |       | 100% stabilized UV polypropylene |     |           |    |           |     |           |      |            |    |
| Carbon Black content           | ASTM D4218       | %     | ≥ 2                              |     |           |    |           |     |           |      |            |    |
| Colour                         |                  |       | Black                            |     |           |    |           |     |           |      |            |    |
| Aperture Dimensions            |                  | mm    | 36                               | 34  | 36        | 36 | 34        | 34  | 34        | 35   | 32         | 31 |
| Minimum Rib Thickness          | ASTM D1777       | mm    | 0.9                              | 0.7 | 1.3       | 1  | 1.6       | 1.3 | 2         | 1.5  | 3          | 2  |
| Roll Length                    |                  | m     | 50                               |     |           |    |           |     |           |      |            |    |
| Roll Width                     |                  | m     | 3.95                             |     |           |    |           |     |           |      |            |    |
| Roll Weight                    |                  | kg    | 39                               |     | 50        |    | 64        |     | 72        |      | 105        |    |

MD: Machine Direction (longitudinal to roll) TD: Transverse Direction (across the roll)



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