



# XGrid PET-C-0 150/20



Application: **Reinforcement**

**STRUCTURE:** Knitted grid from high-tenacity multifilament polyester yarns with black polymeric coating which can provide best resistance of UV and durability

## PROPERTIES OF RAW MATERIAL

|              |                  |            |
|--------------|------------------|------------|
| Raw material | <b>PET</b>       | <i>tol</i> |
| Coating      | <b>polymeric</b> |            |

## MECHANICAL PROPERTIES

|   |                 |      |              |        |
|---|-----------------|------|--------------|--------|
| Strength resistance MD - $T_{ULT}$          | EN ISO 10319    | kN/m | <b>≥ 150</b> |        |
| Elongation at max load MD                   | EN ISO 10319    | %    | <b>10</b>    | +/-2,5 |
| Strength resistance CMD                     | EN ISO 10319    | kN/m | <b>≥ 20</b>  |        |
| Elongation at max load CMD                  | EN ISO 10319    | %    | <b>11</b>    | +/-2,5 |
| Long term design strength MD - $T_{AL}$ (*) | FHWA NHI-00-043 | kN/m | <b>82,93</b> |        |

(120 years life, 20°, 5<pH<8, sand)

## CHEMICAL PROPERTIES OF RAW MATERIAL

|                          |         |         |               |            |
|--------------------------|---------|---------|---------------|------------|
| Carboxyl End Group - CEG | GRI GG7 | mmol/kg | <b>16,6</b>   | <i>tol</i> |
| Molecular weight         | GRI GG8 | Mn      | <b>40.000</b> |            |

## TYPICAL DIMENSIONS

|                        |    |                    |       |
|------------------------|----|--------------------|-------|
| Mesh dimensions MD/CMD | mm | <b>29x29</b>       | +/-5  |
| Roll width             | m  | <b>4,15 - 5,25</b> | +/-2% |
| Roll length            | m  | <b>100</b>         | +/-2% |

**MD:** Machine direction - longitudinal direction

**CMD:** Cross machine direction - transverse direction



The information given in this data sheet is to the best of our knowledge true and correct. TeMa srl reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

TeMa Technologies and Materials srl

Via dell'Industria 21 - 31029 Vittorio V.to (TV) Tel. +39.0438.50.31 - Fax +39.0438.50.34.60 - e-mail: [info@temacorporation.com](mailto:info@temacorporation.com) - [www.temacorporation.com](http://www.temacorporation.com)