

## PARALINK® 500

## STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE

ParaLink® geogrids are planar structures consisting of a monoaxial array of composite geosynthetic strips. The strips comprise of a core of high tenacity polyester tendons encased in a polyethylene sheath. ParaLink® geogrids are CE certified for reinforcement applications according to EN 13249:2016, EN 13250:2016, EN 13251:2016, EN 13253:2016, EN 13254:2016, EN 13255:2016, EN 13257:2016, EN 13265:2016, and BBA HAPAS certified (03/4065 Product Sheet 1) to comply with the design done according to the BS 8006 and to meet the requirements of Highways England and local highway authorities.

| ParaLink®                                                    |                      |                                                                                                             | 500        |
|--------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|------------|
| Mechanical properties                                        |                      |                                                                                                             |            |
| Avg. tensile strength - MD <sup>(1)</sup>                    | EN ISO 10319         | kN/m                                                                                                        | 515        |
| Tolerance <sup>(1)</sup>                                     |                      | kN/m                                                                                                        | - 13       |
| Nominal strain at T <sub>ch</sub> - MD <sup>(1)</sup>        |                      | %                                                                                                           | 9.5        |
| Tensile strength at 2% strain - MD <sup>(1)</sup>            |                      | kN/m                                                                                                        | 115        |
| Tensile strength at 3% strain - MD <sup>(1)</sup>            |                      | kN/m                                                                                                        | 170        |
| Tensile strength at 5% strain - MD <sup>(1)</sup>            |                      | kN/m                                                                                                        | 276        |
| Physical Properties                                          |                      |                                                                                                             |            |
| Strip reinforcement polymer                                  |                      |                                                                                                             | PET        |
| Strip coating polymer                                        |                      |                                                                                                             | PE         |
| Mass per unit area <sup>(2)</sup>                            | EN ISO 9864          | g/m <sup>2</sup>                                                                                            | 1219       |
| Strip width - MD <sup>(3)</sup>                              |                      | mm                                                                                                          | 90         |
| Strip width - CMD <sup>(3)</sup>                             |                      | mm                                                                                                          | 60         |
| Grid size warp/weft <sup>(3)</sup>                           |                      | mm                                                                                                          | 180 x 1000 |
| Grid aperture warp/weft <sup>(3)</sup>                       |                      | mm                                                                                                          | 90 x 940   |
| Roll width <sup>(4)</sup>                                    |                      | m                                                                                                           | 4.50       |
| Roll length <sup>(5)</sup>                                   |                      | m                                                                                                           | 130        |
| Roll weight <sup>(2)</sup>                                   |                      | kg                                                                                                          | 780        |
| Environmental and Sustainability Properties                  |                      |                                                                                                             |            |
| Content of SVHC <sup>(6)</sup>                               | EN 12224<br>EN 12447 | %                                                                                                           | ≤ 0.1      |
| Global Warming Potential Total (GWP) <sup>(6)</sup>          |                      | kg CO <sub>2</sub> Eq.                                                                                      | ≤ 3.31E+00 |
| Acidification Potential (AP) <sup>(6)</sup>                  |                      | mol H+ Eq.                                                                                                  | ≤ 7.82E-03 |
| Eutrophication Potential freshwater (EP-fr) <sup>(6)</sup>   |                      | kg P Eq.                                                                                                    | ≤ 1.04E-05 |
| Eutrophication Potential marine (EP-mar) <sup>(6)</sup>      |                      | kg N Eq.                                                                                                    | ≤ 2.38E-03 |
| Eutrophication Potential terrestrial (EP-ter) <sup>(6)</sup> |                      | mol N Eq.                                                                                                   | ≤ 2.59E-02 |
| Durability                                                   | Annex B - hEN        | Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C. |            |



- (1) Short-term tests in accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251:2016;
- (2) Nominal value, where no specific tolerance is indicated a standard of 10% is admissible;
- (3) Mean measured dimensions;
- (4) Nominal value, where no specific tolerance is indicated a standard of 1% is admissible;
- (5) Standard value;
- (6) Values reported in the EPD certificate Kiwa-EE- 000373-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

MD: Machine Direction;

CMD: Cross Machine Direction



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