MACCAFERRI

# TECHNICAL DATA SHEET

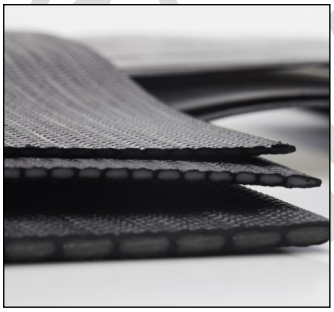
*Rev: 12a, Date 27.06.2024*

# PARALINK®550

## 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® | | | 550 |
|---|---|---|---|
| **Mechanical properties** | | | |
| Avg. tensile strength - MD (1) | EN ISO 10319 | kN/m | 566 |
| Tolerance (1) | | kN/m | - 13 |
| Nominal strain at $T_{ch}$ - MD (1) | | % | 9.5 |
| Tensile strength at 2% strain - MD (1) | | kN/m | 127 |
| Tensile strength at 3% strain - MD (1) | | kN/m | 188 |
| Tensile strength at 5% strain - MD (1) | | kN/m | 304 |
| **Physical Properties** | | | |
| Strip reinforcement polymer | | | PET |
| Strip coating polymer | | | PE |
| Mass per unit area (2) | EN ISO 9864 | $g/m^2$ | 1410 |
| Strip width - MD (3) | | mm | 90 |
| Strip width - CMD (3) | | mm | 60 |
| Grid size warp/weft (3) | | mm | 180 x 1000 |
| Grid aperture warp/weft (3) | | mm | 90 x 940 |
| Roll width (4) | | m | 4.50 |
| Roll length (5) | | m | 100 |
| Roll weight (2) | | kg | 700 |
| **Environmental and Sustainability Properties** | | | |
| Content of SVHC (6) | EN 12224 EN 12447 | % | ≤ 0.1 |
| Global Warming Potential Total (GWP) (6) | | kg $CO_2$ Eq. | ≤ 3.88E+00 |
| Acidification Potential (AP) (6) | | mol H+ Eq. | ≤ 9.24E-03 |
| Eutrophication Potential freshwater (EP-fr) (6) | | kg P Eq. | ≤ 1.19E-05 |
| Eutrophication Potential marine (EP-mar) (6) | | kg N Eq. | ≤ 2.81E-03 |
| Eutrophication Potential terrestrial (EP-ter) (6) | | mol N Eq. | ≤ 3.06E-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 ($T_{ch}$) 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

2895-CPR-SH00969

CERTIFICATE 03/4065

**ParaLink® is a registered trademark of Linear Composite Ltd.**

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