

PARALINK® 450

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®			450
Mechanical properties			
Avg. tensile strength - MD ⁽¹⁾	EN ISO 10319	kN/m	463
Tolerance ⁽¹⁾		kN/m	- 11
Nominal strain at T _{ch} - MD ⁽¹⁾		%	9.5
Tensile strength at 2% strain - MD ⁽¹⁾		kN/m	103
Tensile strength at 3% strain - MD ⁽¹⁾		kN/m	153
Tensile strength at 5% strain - MD ⁽¹⁾		kN/m	248
Physical Properties			
Strip reinforcement polymer			PET
Strip coating polymer			PE
Mass per unit area ⁽²⁾	EN ISO 9864	g/m ²	1124
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	130
Roll weight ⁽²⁾		kg	720
Environmental and Sustainability Properties			
Content of SVHC ⁽⁶⁾	EN 12224 EN 12447	%	≤ 0.1
Global Warming Potential Total (GWP) ⁽⁶⁾		kg CO ₂ Eq.	≤ 3.05E+00
Acidification Potential (AP) ⁽⁶⁾		mol H+ Eq.	≤ 7.27E-03
Eutrophication Potential freshwater (EP-fr) ⁽⁶⁾		kg P Eq.	≤ 9.37E-06
Eutrophication Potential marine (EP-mar) ⁽⁶⁾		kg N Eq.	≤ 2.21E-03
Eutrophication Potential terrestrial (EP-ter) ⁽⁶⁾		mol N Eq.	≤ 2.41E-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



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from the use of such information nor do we offer any warranty or immunity against patent infringement. Specifiers are requested to check the validity of the specification they are using.

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