

General Description

POLYGRID PT series geogrids are manufactured in the State of the art manufacturing facility of POLYON Textiles, for the Application of ASPHALT REINFORCEMENT in Roads, Highways & Airports, meeting the requirements of EN15381.

The facility is certified with a ISO-9001, products supplied are tested in GAI-LAP accredited Laboratories. PT Series Geogrids are a high strength Open mesh Fiberglass fabric made of Woven rovings which are bound strongly by a unique chemistry of Polymeric coating.

Enhancing the Reinforcement function with a Waterproofing function will be a Geocomposite Grid, being a Composite material consisting of Fiberglass Geogrid bonded to a robust Needle punched Nonwoven or a Spunbond Nonwoven Geotextile which together with the Grid works as a stress relieving interlayer.

Properties

1. The Grid opening has a 10% tolerance, can offer customized size based on the user technical need.
2. The standard roll width is 1.5m, we do offer up to 3m maximum. The standard length can be altered as per requirement.
3. The standard Geogrid are available with Self Adhesive & Non adhesive Features. Self Adhesive grid gets activated with the application of simple manual pressure.
4. 100% Polypropylene Non woven Geotextiles are used as standard Geocomposite GC & GCL, Non woven can be customized on specific request.

Technical Characteristics

Property	POLYGRID PT525		POLYGRID PT525 GCL		POLYGRID PT525 GC		TEST METHOD
	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	
Tensile strength Ultimate (MD* X CD+)	55 X 55 - 5 kN/m	313 X 313 - 28 lbs/in	55 X 55 - 5 kN/m	313 X 313 - 28 lbs/in	55 X 55 - 5 kN/m	313 X 313 - 28 lbs/in	ASTM A6637 EN-ISO 10319
Tensile Elongation Ultimate (MD* X CD+)	2.5 +/- 1%	2.5 +/- 1%	2.5 +/- 1%	2.5 +/- 1%	2.5 +/- 1%	2.5 +/- 1%	ASTM A6637 EN-ISO 10319
Tensile resistance @2% strain (MD* X CD+)	46 x 46 +/- 10 KN/m	256 x 256 +/- 57 lbs/in	46 x 46 +/- 10 KN/m	256 x 256 +/- 57 lbs/in	46 x 46 +/- 10 KN/m	256 x 256 +/- 57 lbs/in	ASTM A6637 EN-ISO 10319
Secant Stiffness @1% strain (MD* X CD+)	2200 x 2200 +/- 200 N/ mm	12560 x 12560 +/- 1140 lbs/in	2200 x 2200 +/- 200 N/ mm	12560 x 12560 +/- 1140 lbs/in	2200 x 2200 +/- 200 N/ mm	12560 x 12560 +/- 1140 lbs/in	ASTM A6637 EN-ISO 10319
Young Modulus	73 GPa	10.6 x 10 ⁶ psi	73 GPa	10.6 x 10 ⁶ psi	73 GPa	10.6 x 10 ⁶ psi	n/a
Mass Per Unit Area	≥ 225 g/m ²	≥ 6.5 oz/yd ²	≥ 260 g/m ²	≥ 7.7 oz/yd ²	≥ 360 g/m ²	≥ 10.6 oz/yd ²	ASTM D5261 ISO 9864
Geo textiles Materials	n/a	n/a	100% PP Nonwoven 40GSM		100% PP Nonwoven 140GSM		n/a
Asphalt Retention	n/a	n/a	0.35 l/m ²	0.08 gal/yd ²	0.9 l/m ²	0.2 gal/yd ²	ASTM D6140 EN 15381 Annex C
Melting point of Glass	≥ 820° C	≥ 1508° F	≥ 820° C	≥ 1508° F	≥ 820° C	≥ 1508° F	ASTM C338
Melting point of Coating	≥ 232° C	≥ 450° F	≥ 232° C	≥ 450° F	≥ 232° C	≥ 450° F	ASTM D276 EN ISO 3146
Grid Size (Center to Center of Strand)	25 x 25 mm	1.0 x 1.0 in	25 x 25 mm	1.0 x 1.0 in	25 x 25 mm	1.0 x 1.0 in	n/a
Roll Length	150 m	492 ft	150 m	492 ft	100 m	328 ft	n/a
Roll Width	1.5 m	5 ft	1.5 m	5 ft	1.5 m	5 ft	n/a
Roll Area	225 m ²	269 yd ²	225 m ²	269 yd ²	150 m ²	180 yd ²	n/a
Adhesive Backing	Pressure sensitive adhesive as Required						
Material	Polymer modified coated fiberglass reinforcement geogrid						

