

GeoGrid HP500 Product Data

Geostar soil reinforcement geogrids are proudly made in the USA and are composed of high molecular weight, high tenacity multifilament polyester yarns and coated with PVC. They are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis, and acids.

<i>Materials</i>	<i>Symbol</i>	<i>Test Method</i>	<i>HP500 Polyester GeoGrid</i>
Polymer	-	-	PET/PET
Coating	-	-	PVC
<i>Tensile Properties</i>			
MD-Ultimate Strength	T_{ULT}	ASTM D 6637 (lbs/ft) / (kN/m)	7,681 / 112.10
MD-Creep Limited Strength	T_L	ASTM D 5262 (lbs/ft) / (kN/m)	5,004 / 73.03
<i>Reduction Factors</i>			
Creep Reduction Factor	RF_{CR}	ASTM D 5262	1.51
Durability Reduction Factor	RF_D	ASTM D 2455	1.10
Installation Damage Reduction Factor (Soil Type 3)	RF_{ID}	ASTM D 2455	1.05
<i>Design Strength Properties</i>			
Long Term Design Strength	LTDS	NCMA 97 (lbs/ft) / (kN/m)	4,404 / 64.27
<i>Physical Properties</i>		<i>Units</i>	
Aperture	-	in / mm	0.8 x 1.0 / 20.32 x 25.4
Weight	-	lbs / kg	73, 147 / 33.11, 66.68
Length	-	ft / m	150' / 45.72
Width	-	ft / m	6', 12' / 1.82, 3.66
Area	-	yd ² / m ²	100, 200 / 83.61, 167.23

Note: Custom sizing available upon request.

Updated as of July 2020

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