

GeoGrid HP1000 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>HP1000 Polyester GeoGrid</i>
Polymer	-	-	PET/PET
Coating	-	-	PVC

<i>Tensile Properties</i>			
MD-Ultimate Strength	T_{ULT}	ASTM D 6637 (lbs/ft) / (kN/m)	20,510 / 299.33
MD-Creep Limited Strength	T_L	ASTM D 5262 (lbs/ft) / (kN/m)	13,605 / 198.55

<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)	11,760 / 171.62

<i>Physical Properties</i>		<i>Units</i>	
Aperture	-	in / mm	0.4 x 1.0 / 10.16 x 25.4
Weight	-	lbs / kg	275 / 124.74
Length	-	ft / m	150' / 45.72
Width	-	ft / m	12' / 3.66
Area	-	yd ² / m ²	200 / 167.23

Note: Custom sizing available upon request.

Updated as of July 2020

Disclaimer: This Product Data Sheet is the sole and exclusive property of Geostar Technologies LLC ("Geostar"). The Product Data Sheet shall not be reproduced, disseminated, or otherwise used in any way, except in connection with the purchase of Geostar HP Products (including, but not limited to the HP product line), without the express written consent of Geostar. Geostar assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Geostar disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.