

GeoGrid 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.

Materials	Symbol	Test Method	MG100	HP100	HP200	HP300	HP500	HP700	HP1000
Polymer	-	-	PET/PET						
Coating	-	-	PVC						
Tensile Properties			MG100	HP100	HP200	HP300	HP500	HP700	HP1000
MD-Ultimate Strength	T _{ULT}	ASTM D 6637 (lbs/ft)	1,680	2,014	3,588	4,991	7,681	10,340	20,510
MD-Creep Limited Strength	T _L	ASTM D 5262 (lbs/ft)	1,076	1,337	2,376	3,301	5,004	6,832	13,605
Reduction Factors			MG100	HP100	HP200	HP300	HP500	HP700	HP1000
Creep Reduction Factor	RF _{CR}	ASTM D 5262	1.51	1.51	1.51	1.51	1.51	1.51	1.51
Durability Reduction Factor	RF _D	ASTM D 2455	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Installation Damage Reduction Factor (Soil Type 3)	RF _{ID}	ASTM D 2455	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Design Strength Properties			MG100	HP100	HP200	HP300	HP500	HP700	HP1000
Long Term Design Strength	LTDS	NCMA 97 (lbs/ft)	963	1,155	2,057	2,862	4,404	5,929	11,760
Physical Properties		Units	MG100	HP100	HP200	HP300	HP500	HP700	HP1000
Aperture	-	in	80. x 80.	1.0 x 0.8	0.8 x 1.0	0.8 x 1.0	0.8 x 1.0	0.6 x 1.0	0.4 x 1.0
Weight	-	Ibs	61	46 / 92	46 / 92	62 / 116	73 / 147	- / 199	- / 275
Length	-	ft	150′	150′	150′	150′	150′	150′	150′
Width	-	ft	8'	6' / 12'	6' / 12'	6' / 12'	6' / 12'	- / 12'	- / 12′
Area	-	yd²	133	100 / 200	100 / 200	100 / 200	100 / 200	- / 200	- / 200

Note: Higher strength and custom sizing available upon request.

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