



www.bluestonesupply.com

geostar technologies (901) 881-2517 • geostartechnologies.com
2029 Peabody Avenue • Memphis, Tennessee 38104

GeoBase Product Data

Materials	Test Method	GB 11		GB 12		GB 1515		GB 2020		GB 3030	
Polymer		Polypropylene		Polypropylene		Polypropylene		Polypropylene		Polypropylene	
Construction		Extruded		Extruded		Extruded		Extruded		Extruded	
Tensile Properties		kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft
Ultimate Tensile Strength - MD/CMD	ASTM D 6637	12.9/19.6	884/1343	19.7/29.4	1350/2014	15/15	1028/1028	20/20	1370/1370	30/30	2056/2056
Tensile Strength @ 2% Strain - MD/CMD	ASTM D 6637	4.3/6.9	295/473	6.4/9.4	438/644	6.1/6.1	420/420	9/9	617/617	13.5/13.5	925/925
Tensile Strength @ 5% Strain - MD/CMD	ASTM D 6637	8.9/13.9	610/952	12.3/20.1	843/1377	11.3/11.3	775/775	16/16	1096/1096	25/25	1713/1713
Tensile Modulus @ 2% - MD/CMD	ASTM D 6637	215/345	14,750/23,650	320/470	21,900/32,200	306/306	21,000/21,000	450/450	30,850/30,850	675/675	46,250/46,250
Tensile Modulus @ 5% - MD/CMD	ASTM D 6637	178/278	12,200/19,040	246/402	16,860/27,540	226/226	15,500/15,500	320/320	21,920/21,920	500/500	34,260/34,260
Structural Integrity											
Junction Efficiency (%)		95		95		95		93		94	
Junction Strength (lbs/ft) - MD CMD	ASTM D 7737	1,765.20	1,601.10	1,864.80	1,637.10	1,459.80	1,494.00	1,680.30	2,169.00	2,391.63	2,449.92
Flexural Stiffness (mg-cm)	ASTM D 7748	500,000		1,000,000		500,000		1,000,000		2,000,000	
Aperture Stability (m-N/deg)	US COE Method	0.45		0.75		0.41		0.65		1.05	
Installation Damage											
Silty Sand	ASTM D 5818	1.05		1.05		1.05		1.05		1.05	
Concrete Sand	ASTM D 5818	1.05		1.05		1.05		1.05		1.05	
#57 Stone	ASTM D 5818	1.15		1.15		1.15		1.15		1.15	
Ultraviolet Stability											
UV % Strength Retained @ 500 hrs	ASTM D 4355	92		92		92		92		92	
Physical Properties											
Aperture Dimensions - MD/CMD	mm in	25/33	.984/1.299	25/33	.984/1.299	33/33	1.299/1.299	34/34	1.339/1.339	35/35	1.378/1.378
Open Area (%)	COE CW02215	80		79		79		78		78	
Minimum Rib Thickness - MD/CMD	mm in	0.8/0.8	.031/.031	1.3/1.3	.051/.051	.8/.8	.031/.031	1.1/1.1	.043/.043	1.5/1.5	.059/.059
Roll Width	m ft	3.95	12.959	3.95	12.959	3.95	12.959	3.95	12.959	3.95	12.959
Roll Length	m ft	75	246.063	75	246.063	75	246.063	75	246.063	75	246.063
Area Per Roll	SQM SQY	296.25	354.315	296.25	354.315	296.25	354.315	296.25	354.315	296.25	354.315
Weight Per Roll	KGS LBS	74.8	165	108.9	240	68	150	79.4	175	131.5	290

*The above values are provided solely for general information purposes and shall not be construed as engineering advice. We hereby disclaim any liability in connection with the use of the above information.

Updated as of April 1, 2015