

Property	Symbol	Method	SF20	SF35	SF55	SF80	SF90	SF110	SF350	
Note: All geogrids woven PET with PVC Coatings										
Tensile Properties			LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	
MD - Ultimate Strength	Tult	ASTM D-4595	1940	3055	4200	5950	8500	10205	27390	
MD - Ultimate Strain at Failure	%	ASTM D-4595	14.4%	13%	15%	15%	15%	17%	14%	
MD - Creep Reduced Strength	TI	ASTM D-5262	1141	1797	2500	3400	4857	5831	15651	
DESIGN STRENGTH PROPERTIES										
CREEP Reduction Factor(ed=10')	RFCR	GRI-GG4b '91	1.7	1.7	1.68	1.75	1.75	1.75	1.75	
AGING/DURABILITY Reduction Factor 5<soil PH<8	RFD	GRI-GG4b '91	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
INSTALLATION DAMAGE Reduction Factor 1:100mm Max, 30mm D50, PI<6	RFID	GRI-GG4b '91	1.73	1.63	1.55	1.5	1.5	1.4	1.4	
2:20mm Max, 0.7mm D50, PI<6	RFID	GRI-GG4b '91	1.1	1.08	1.05	1.05	1.05	1.05	1.05	
3:20mm Max, .1-.5mmD50, PI<20	RFID	GRI-GG4b '91	1.1	1.08	1.05	1.05	1.05	1.05	1.05	
Tult / RF for Soil Type 1: =	LTDS	GRI-GG4b '91	599	1002	1466	2060	2943	3786	10163	
Tult / RF for Soil Type 2: =	LTDS	GRI-GG4b '91	943	1662	2164	2943	4205	5048	13551	
Tult / RF for Soil Type 3: =	LTDS	GRI-GG4b '91	943	1662	2164	2943	4205	5048	13551	
DESIGN INTERACTION PROPERTIES			Note: Ci & Cds tests type 2 & estimate from tech. Literature; Ci tan o = F* a & Cd							
Coefficient of Interaction:	Ci	GRI - GG5 '91	Ci	Ci	Ci	Ci	Ci	Ci	Ci	
Coefficient of Direct Sliding:	Cds	ASTM D-5321	Cds	Cds	Cds	Cds	Cds	Cds	Cds	
Soil Type 1:		see above	0.75	0.7	0.75	0.7	0.75	0.65	0.75	0.65
Soil Type 2:		see above	0.8	0.8	0.8	0.85	0.85	0.9	0.85	0.9
Soil Type 3:		see above	0.7	0.75	0.72	0.75	0.75	0.85	0.7	0.85
PHYSICAL PROPERTIES			US	US	US	US	US	US	US	
MD - Aperture Size:	(ins.)	measured	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
CMD - Aperture Size:	(ins.)	measured	0.75	0.75	0.75	0.75	0.75	0.75	0.75	

GeoCHEM can custom produce roll size and vary aperture size for site specific applications

Property	Symbol	Method	SF20	SF35	SF55	SF80	SF90	SF110	SF350	
Note: All geogrids woven PET with PVC Coatings										
Tensile Properties			LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	LBS/FT	
MD - Ultimate Strength	Tult	ASTM D-4595	1940	3055	4200	5950	8500	10205	27390	
MD - Ultimate Strain at Failure	%	ASTM D-4595	14.4%	13%	15%	15%	15%	17%	14%	
MD - Creep Reduced Strength	TI	ASTM D-5262	1259	1983	2727	3838	5483	6500	17445	
DESIGN STRENGTH PROPERTIES										
CREEP Reduction Factor(ed=10'	RFCR	NCMA 97	1.54	1.54	1.54	1.55	1.55	1.57	1.57	
AGING/DURABILITY Reduction Factor 5<soil PH<8	RFD	NCMA 97	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
INSTALLATION DAMAGE Reduction Factor										
1:100mm Max, 30mm D50, PI<6	RFID	NCMA 97	1.73	1.63	1.55	1.5	1.5	1.4	1.4	
2:20mm Max, 0.7mm D50, PI<6	RFID	NCMA 97	1.1	1.08	1.05	1.05	1.05	1.05	1.05	
3:20mm Max, .1-.5mmD50, PI<20	RFID	NCMA 97	1.1	1.08	1.05	1.05	1.05	1.05	1.05	
Tult / RF for Soil Type 1: =	LTDS	NCMA 97	661	1106	1599	2326	3323	4220	11328	
Tult / RF for Soil Type 2: =	LTDS	NCMA 97	1040	1669	2361	3323	4747	5627	15104	
Tult / RF for Soil Type 3: =	LTDS	NCMA 97	1040	1669	2361	3323	4747	5627	15104	
DESIGN INTERACTION PROPERTIES			Note: Ci & Cds tests type 2 & estimate from tech. Literature; Ci tan o = F* a & Cd							
Coefficient of Interaction:	Ci	GRI - GG5 '91	Ci	Ci	Ci	Ci	Ci	Ci	Ci	
Coefficient of Direct Sliding:	Cds	ASTM D-5321	Cds	Cds	Cds	Cds	Cds	Cds	Cds	
Soil Type 1:		see above	0.75	0.7	0.75	0.7	0.75	0.65	0.75	0.65
Soil Type 2:		see above	0.8	0.8	0.8	0.85	0.85	0.9	0.85	0.9
Soil Type 3:		see above	0.7	0.75	0.72	0.8	0.75	0.85	0.7	0.85
PHYSICAL PROPERTIES			US	US	US	US	US	US	US	
MD - Aperture Size:	(ins.)	measured	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
CMD - Aperture Size:	(ins.)	measured	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
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MD - Ultimate Strength	Tult	ASTM D-4595	1940	3055	4200	5950	8500	10205	27390	
MD - Ultimate Strain at Failure	%	ASTM D-4595	14.4%	13%	15%	15%	15%	17%	14%	
MD - Creep Reduced Strength	TI	ASTM D-5262	1259	1983	2727	3838	5483	6500	17445	
DESIGN STRENGTH PROPERTIES										
CREEP Reduction Factor(ed=10'	RFCR	AASHTO 98	1.54	1.54	1.54	1.55	1.55	1.57	1.57	
AGING/DURABILITY Reduction Factor 5<soil PH<8	RFD	AASHTO 98	1.15	1.15	1.15	1.15	1.15	1.15	1.15	
INSTALLATION DAMAGE Reduction Factor 1:100mm Max, 30mm D50, PI<6	RFID	AASHTO 98	1.73	1.63	1.55	1.5	1.5	1.4	1.4	
2:20mm Max, 0.7mm D50, PI<6	RFID	AASHTO 98	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
3:20mm Max, .1-.5mmD50, PI<20	RFID	AASHTO 98	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Tult / RF for Soil Type 1: =	LTDS	AASHTO 98	633	1057	1519	2225	3179	4037	10835	
Tult / RF for Soil Type 2: =	LTDS	AASHTO 98	995	1567	2155	3034	4335	5138	13791	
Tult / RF for Soil Type 3: =	LTDS	AASHTO 98	995	1567	2155	3034	4335	5138	13791	
DESIGN INTERACTION PROPERTIES			Note: Ci & Cds tests type 2 & estimate from tech. Literature; Ci tan o = F* a & Cd							
Coefficient of Interaction:	Ci	GRI - GG5 '91	Ci	Ci	Ci	Ci	Ci	Ci	Ci	
Coefficient of Direct Sliding:	Cds	ASTM D-5321	Cds	Cds	Cds	Cds	Cds	Cds	Cds	
Soil Type 1:		see above	0.75	0.7	0.75	0.7	0.75	0.65	0.75	0.65
Soil Type 2:		see above	0.8	0.8	0.8	0.85	0.85	0.9	0.85	0.9
Soil Type 3:		see above	0.7	0.75	0.72	0.8	0.75	0.85	0.7	0.85
PHYSICAL PROPERTIES			US	US	US	US	US	US	US	
MD - Aperture Size:	(ins.)	measured	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
CMD - Aperture Size:	(ins.)	measured	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
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