

| 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

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| 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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| 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 | 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 | 0.75 | 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 | | | | | | | | | | |