

M. A. R. V. Properties
of
Synteen Geogrids

Property	Symbol	Method	SF110	
Note: All geogrids woven PET with PVC Coatings				
Tensile Properties			LBS/FT	
MD - Ultimate Strength	Tult	ASTM D-4595	10205	
MD - Ultimate Strain at Failure	%	ASTM D-4595	17%	
MD - Creep Reduced Strength	TI	ASTM D-5262	6500	
DESIGN STRENGTH PROPERTIES				
CREEP Reduction Factor(ed=10'	RFCR	AASHTO 98	1.57	
AGING/DURABILITY Reduction Factor 5<soil PH<8	RFD	AASHTO 98	1.15	
INSTALLATION DAMAGE Reduction Factor				
1:100mm Max, 30mm D50, PI<6	RFID	AASHTO 98	1.4	
2:20mm Max, 0.7mm D50, PI<6	RFID	AASHTO 98	1.1	
3:20mm Max, .1-.5mmD50, PI<20	RFID	AASHTO 98	1.1	
Tult / RF for Soil Type 1: =	LTDS	ASHTO 98	4037	
Tult / RF for Soil Type 2: =	LTDS	AASHTO 98	5138	
Tult / RF for Soil Type 3: =	LTDS	AASHTO 98	5138	
DESIGN INTERACTION PROPERTIES			Note: Ci & Cds te	
Coefficient of Interaction:	Ci	GRI - GG5 '91	Ci	
Coefficient of Direct Sliding:	Cds	ASTM D-5321	Cds	
Soil Type 1:		see above	0.75	0.65
Soil Type 2:		see above	0.85	0.9
Soil Type 3:		see above	0.7	0.85
PHYSICAL PROPERTIES			US	
MD - Aperture Size:	(ins.)	measured	0.75	
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Synteen can custom produce roll size and vary aperture size for site specific applications				