

## Product Datasheet - Uniaxial Geogrids

Shri Sai Geogrid is uniaxial geogrid composed of high tenacity polyester (PET) multifilament yarn with high molecular weight and low carboxyl end group. This Geogrid is woven and coated with PVC to give better long term design strength in soil reinforcement applications. Shri Sai Geogrid is inert to biological and chemical degradation. CTM GGU Uniaxial Geogrids are available in the following styles:

Property	Test Method	Unit	CTMGGU 40/20	CTMGGU 60/20	CTMGGU 80/30	CTMGGU 100/30	CTMGGU 120/30	CTMGGU 150/30	CTMGGU 180/30	CTMGGU 200/30	CTMGGU 250/30	CTMGGU 300/30
<b>Peak Tensile Strength ( Minimum Average Roll Values )</b>												
Machine Direction	ASTM- 6637-2010	kN/m	40	60	80	100	120	150	180	200	250	300
Cross Machine Direction		kN/m	20	20	30	30	30	30	30	30	30	30
<b>Reduction Factors</b>												
Creep-RF <sub>CR</sub> @ 20° C & 100 Years	ASTM D 6992/ISO 10319		1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
Installation Damage-RF <sub>ID</sub> Sand, D <sub>50</sub> = 1.00 mm	ASTM D 5818/ISO 10319		1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Durability-RF <sub>D</sub> 4<pH<9	Q		1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
LTDS - 100 years, Sand, 4<pH<9		kN/m	21.27	31.91	42.53	53.19	63.82	79.78	95.74	106.38	132.97	159.57
Pullout Interaction Coefficient, C <sub>i</sub>	ASTM-6706		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
<b>Physical Properties</b>												
Colour			Black									
Coating Type			PVC									
Textile Type			High Tenacity Low Shrinkage Polyester Yarn									
Yarn – Carboxyl End Group (CEG) Count	ASTM D 7409, GRI-GG7)	mmol/kg	12.1									
Yarn – Molecular Weight by Viscosity	ASTM D 4603, GRI-GG8)	g/mol	37106									
Roll Length		m	100	100	100	100	100	50	50	50	50	50
Roll Width (± 4%)		m	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
Roll Area		sq.m	240	240	240	240	240	120	120	120	120	120
Roll Length (core tube)		mm	2600 mm									

Q There values are evaluated by TRI (USA) Lab.

- Standard tolerances and technical developing change reserved.

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