TechGrid - TGU - 400

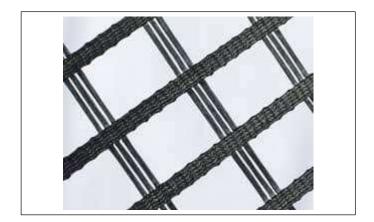


PRODUCT DATASHEET

TechGrid U series are uniaxial knitted polyester geogrids, with a polymeric coating engineered for demanding soil reinforcement applications. The high tenacity polyester yarns are formed into a dimensionally stable grid structure with uniform apertures, using an advanced weft insertion warp knitting process, which is then given a tough and durable polymeric coating to enhance dimensional stability, resistance to installation damage and durability.

Physical Properties:	Units		TGU-400	Test Method
Composition	Woven filament, high tenacity, polyester yarns			
Tensile Strength (Ultimate) ¹	MD	kN/m	≥ 400	- EN-ISO-10319
	CD	kN/m	≥ 30	
Elongation (@ Ultimate \pm 2%)	MD	%	10	- EN-ISO-10319
	CD	%	10	
Reduction Factor (RF) and factor of safety (fs) for calculation of MD Long-term Design Strength (LTDS):				
Creep (RF _{CR}) – 120 years design life at 20°C temperature			1.45	
	kN/m			
Creep Limited Strength		kN/m	275.9	
Creep Limited Strength Installation damage (RF _{ID})	Sand/silt/c		275.9 1.02	
	Sand/silt/c			EN-ISO
Installation damage (RF _{ID})	Sand/silt/c		1.02	EN-ISO
Installation damage (RF _{ID}) Partial Factor - environmental effect, pH = 5 to 9	Sand/silt/c		1.02	EN-ISO
Installation damage (RF _{ID}) Partial Factor - environmental effect, pH = 5 to 9 Factor of Safety for 120 years (f _s)	Sand/silt/c	lay	1.02 1.07 1.09 231.9	EN-ISO

1. Average (typical) Value obtained in accredited laboratories.



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