## TechGrid - TGU - 40

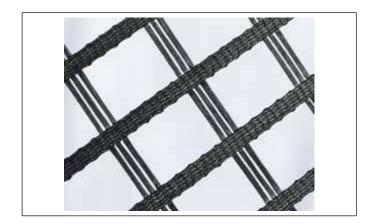




**TechGrid U series** are uniaxial knitted polyester geogrids, with a polymeric coating engineered for demanding soil reinforcement applications. The high tenacity polyester yarns are formed into a dimensionally stable grid structure with uniform apertures, using an advanced weft insertion warp knitting 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-40	Test Method
Composition	Woven filament, high tenacity, polyester yarns			
Tensile Strength (Ultimate) <sup>1</sup>	MD	kN/m	≥ 40	- EN-ISO-10319
	CD	kN/m	≥ 20	
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 <sub>CR</sub> ) – 120 years design life at 20°C temperature			1.45	
	·utuic		1.45	
Creep Limited Strength		kN/m	27.6	
Creep Limited Strength Installation damage (RF <sub>ID</sub> )	Sand/silt/c	-		FNUSO
		-	27.6	- EN-ISO
Installation damage (RF <sub>ID</sub> )		-	27.6	- EN-ISO
Installation damage (RF <sub>ID</sub> )  Partial Factor - environmental effect, pH = 5 to 9		-	27.6 1.04 1.07	EN-ISO
Installation damage (RF <sub>ID</sub> )  Partial Factor - environmental effect, pH = 5 to 9  Factor of Safety for 120 years (f <sub>s</sub> )		lay	27.6 1.04 1.07 1.09 23.2	EN-ISO

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



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