

SYNTEEN SC41K

HIGH STRENGTH WOVEN POLYESTER GEOTEXTILE

SC41K is a uniaxial geotextile composed of high molecular weight, high tenacity multifilament polyester yarns that are woven into a stable network placed under tension. Synteen SC Series Geotextiles are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. Synteen SC Series Geotextiles are used in a wide variety of soil reinforcement and soil stabilization applications:

- Road embankments and levees built on soft soils with low bearing capacity
- Landfill, lagoon and sludge pond closures
- Land reclamation and capping
- Steeped slopes and MSE walls
- Geotextile tubes

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE (MARV) ¹
Ultimate Tensile Strength (MD)	ASTM D 4595	lbs/ft (kN/m)	41,160 (600.7)
Tensile Strength at 5% (MD)	ASTM D 4595	lbs/ft (kN/m)	14,000 (204.3)
Long Term Design Strength (LTDS) (MD) ²	GRI GT-7	lbs/ft (kN/m)	15,363.7 (224.2)

PHYSICAL PROPERTIES	TEST METHOD	UNIT	ROLL VALUE
Roll Dimensions ³ (Width x Length)	Measured Value	ft (m)	16.4 X 300 (5.0 X 91.44)
Roll Area	Measured Value	yd ² (m ²)	546.7 (457.1)

¹ Minimum Average Roll Values (MARV) are calculated as the typical minus two (2) standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken from quality assurance testing will exceed the value reported.

² Long term design strength (LTDS) is calculated for a 75-year design life at 20 °C, silty sand ($D_{50} = 0.9\text{mm}$) backfill, and standard soil pH range 3 - 9. $RF_{CR} = 1.61$; $RF_{ID} = 1.28$; $RF_D = 1.3$

³ Custom roll lengths are available upon request.

SYNTEEN Technical Fabrics reserves right to amend product specifications without notice. Users / Buyers shall verify the product compliance with the project specifications or design requirements.

Synteen Technical Fabrics

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