



## Earthworks and Foundations

Comtrac® P 105/105 high strength geotextile fabric is comprised of high tenacity polypropylene yarns which are woven into a stable network such that the yarns retain their relative positions. The fabric is inert to biological degradation and naturally encountered chemicals, alkalis, and acids. Comtrac® P 105/105 high strength geotextile conforms to the minimum average roll values listed in the following table

### Physical Properties of Comtrac® P 105/105

PROPERTY	TEST METHOD	ENGLISH units <sup>1</sup> MD x CMD	SI units <sup>1</sup> MD x CMD
Ultimate Tensile Strength	ASTM D-4595	600 x 600 lb/in	105 x 105 kN/m
Tensile Strength @ 2%	ASTM D-4595	65 x 137 lb/in	11.5 x 24 kN/m
Tensile Strength @ 5%	ASTM D-4595	285 x 315 lb/in	50 x 55 kN/m
Mass Per Unit Area	ASTM D-5261	15 oz/yd <sup>2</sup>	500 g/m <sup>2</sup>
Grab Tensile Strength	ASTM D-4632	800 x 750 lb	3.6 x 3.3 kN
Grab Tensile Elongation	ASTM D-4632	20% x 15%	20% x 15%
Apparent Opening Size	ASTM D-4751	45 US Sieve	0.33 mm
Permittivity	ASTM D-4491	0.33 sec <sup>-1</sup>	0.33 sec <sup>-1</sup>
Flow Rate	ASTM D-4491	20 gal/min/ft <sup>2</sup>	813 l/min/m <sup>2</sup>
Puncture Strength	ASTM D-4833	350 lb	1.5 kN
Trapezoidal Tear Strength	ASTM D-4533	320 x 320 lb	1.4 x 1.4 kN
UV Resistance (500 HRS)	ASTM D-4355	80%	80%

<sup>1</sup> Minimum average roll values are based on a 95% confidence level. MD-Machine Direction CMD-Cross Machine Direction

Standard Roll Size: 5.2 m (CMD) x 100 m (MD) = 520 m<sup>2</sup>/Roll  
17.06 ft (CMD) x 328.1 ft (MD) = 622 yd<sup>2</sup>/Roll  
Weight (includes core) = 633 lbs (287 kg)

*Each roll of Comtrac® delivered to the project site is labeled by HUESKER with a roll label that indicates manufacturer's name, product identification, lot number, roll number and roll dimensions. All rolls of Comtrac® are encased in a sturdy polyethylene wrap to shield the product from rain, dirt, dust and ultraviolet light. Contact HUESKER for information on our material warranty.*

