

Playgrounds & Fitness over Compacted Stone

PROPERTY ⁽¹⁾	TEST METHOD	FREQUENCY	UNIT Imperial	1106365
SPECIFICATIONS				
GEOCOMPOSITE		-		
Transmissivity	ASTM D4716	1/540,000 ft ²	m ² /sec psf/min/-	1x10 ⁻⁴ 10000/15/0.1 Steel plates
Load / Seat Time / Gradient Boundary Conditions				
Ply Adhesion Average (min. avg.)	ASTM D7005	1/50,000 ft ²	lbf/in	1.0
GEONET CORE		-		
Thickness (min. avg.)	ASTM D5199	1/50,000 ft ²	mils	200
Transmissivity	ASTM D4716	1/Shift	m ² /sec psf/min/-	2x10 ⁻³ 10000/15/0.1 Steel plates
Load / Seat Time / Gradient Boundary Conditions				
Density (min.)	ASTM D792	1/50,000 ft ²	g/cc	0.94
Carbon Black Content	ASTM D4218	1/50,000 ft ²	%	2.0
Tensile Strength (MD)	ASTM D7179	1/50,000 ft ²	lbf/in	45
GEOTEXTILE (2)		-		
Mass	ASTM D5261	1/90,000 ft ²	oz/yd ²	6
Grab Tensile Strength	ASTM D4632	1/90,000 ft ²	lbf	170
Grab Elongation	ASTM D4632	1/90,000 ft ²	%	50
CBR Puncture Strength	ASTM D6241	1/540,000 ft ²	lbf	435
Trapezoidal Tear Strength	ASTM D4533	1/90,000 ft ²	lbf	70
Apparent Opening Size (max.)	ASTM D4751	1/540,000 ft ²	mm	0.212
Permittivity	ASTM D4491	1/540,000 ft ²	sec-1	1.5
Water Flow Rate	ASTM D4491	1/540,000 ft ²	gpm/ft ²	110
UV Resistance-% retained after 500 hrs (typ.)	ASTM D4355	Per formulation	%	70
SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		ft	4.833
Roll Dimension - Length	-		ft	270
Area (Surface/Roll)	-		ft ²	~1,300

NOTES

1. Image shows fabric cut away from grid system in-between, in an effort to show what is inside the two fabrics:



2. Component properties prior to lamination.

* All geotextile properties are minimum average roll values except AOS which is maximum average roll value and UV resistance is typical value.

* The information contained herein is provided for reference purposes only and is not intended as a warranty or guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. UNITY Surfacing assumes no liability in connection with the use of this information.

UNITY Surfacing is not a design professional and has not performed any design services to determine if UNITY'S Fabric/Mesh System complies with any project plans or specifications, or with the application or use of UNITY'S Fabric/Mesh System to any particular system, project, purpose, installation or specification.

UNITY™ Surfacing

Manufacturing Rubberized Safety Surfacing, Flooring and Paver Products.

SPECIFICATION DATA

400 Series - ROOFTOP APPLICATIONS ONLY

400 Series - CONTRACTOR'S CHOICE is nonwoven geotextile that is needle-punched and made of 100% polypropylene fibers for rooftop applications, which are formed into a random network for dimensional stability. ALL Non-Woven Fabrics resist ultra-violet deterioration, rotting, and biological degradation. Polypropylene is stable within a pH range of 2 to 13.

PROPERTY	TEST METHOD	TYPICAL
Fabric Color		Black
Weight	ASTM D-5261	4 oz/sy
Tensile Strength(lbs)	ASTM D-4632	100
Elongation %	ASTM D-4632	50
Puncture (lbs)	ASTM D-6241	300
Trapezoidal Tear	ASTM D-4533	50
UV Resistance (%/hours)	ASTM D-4355	70/500
Apparent Opening Size (AOS)	ASTM D-4751	70
Water Flow Rate	ASTM D-4491	140 gpm/sf

*Maximum Average Roll Value

PROPERTY	TYPICAL
Roll Sizes	3' x 300'
	4' x 300' (Std)
	6' x 300'
	8' x 300'
	12' x 300'

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The property values listed above are subject to change without notice. 2025.

Unity Surfacing

3997 Route 9W (PO Box 9) Saugerties, NY. 12477

T: (1-877) 41-Unity, E-mail: ProductInfo@UnitySurfacing.com