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DRAINAGE PRODUCT DESCRIPTION SHEET  
**SKAPS TRANSNET™ 220-1-8**

SKAPS TRANSNET 220-1-8 is a superior quality drainage media made by extruding two sets of HDPE strands together to form a diamond shaped net. The net is then heat laminated on one side to an 8 ounce nonwoven geotextile fabric. This three dimensional structure provides excellent planar liquid flow. SKAPS drainage composites are manufactured from first quality virgin resin geonets and a full range of nonwoven geotextiles. The Transnet 220-1-8 conforms to the physical property values listed below:

GeoNet Property	Test Method	Unit	Minimum Average Value
Thickness	ASTM D 5199	mil (mm)	200 (5.08)
Carbon Black	ASTM D 4218	%	2.0
Tensile Strength	ASTM D 7179	lb/in (kN/m)	45 (7.87)
Melt Flow	ASTM D 1238 <sup>(2)</sup>	g/10 min	1.0 Maximum
Density	ASTM D 1505	g/cm <sup>3</sup>	0.94
Transmissivity <sup>(1)</sup>	ASTM D 4716	m <sup>2</sup> /sec	2.0 x 10 <sup>-3</sup>

Composite Property	Test Method	Unit	Value
Ply Adhesion	ASTM D 7005	lb/in (g/cm)	1.0 (178)
Transmissivity <sup>(1)</sup>	ASTM D 4716	m <sup>2</sup> /sec	1.0 x 10 <sup>-3</sup>

**SKAPS GE180**

SKAPS GE180 is a superior quality, nonwoven geotextile produced by needlepunching together 100% polypropylene staple fibers in a random network to form a high strength dimensionally stable fabric. The polypropylene fibers are specially formulated to resist ultraviolet light deterioration and are inert to commonly encountered soil chemicals. The fabric will not mildew, is non-biodegradable, and is resistant to damage from insects and rodents. Polypropylene is stable within a pH range of 2 to 13. SKAPS GE180 conforms to the physical property values below:

Geotextile Property	Test Method	Unit	Minimum Average Roll Value <sup>(3)</sup>
Weight	ASTM D 5261	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	8.0 (271)
Grab Tensile	ASTM D 4632	lb (kN)	225 (1001)
Grab Elongation	ASTM D 4632	%	50
Trapezoid Tear	ASTM D 4533	lb (kN)	90 (0.40)
CBR Puncture Resistance	ASTM D 6241	lb (kN)	600 (2.67)
Water Flow Rate <sup>(4)</sup>	ASTM D 4491	gpm/ft <sup>2</sup> (l/min/m <sup>2</sup> )	100 (4075)
Permittivity <sup>(4)</sup>	ASTM D 4491	sec <sup>-1</sup>	1.26
AOS	ASTM D 4751	US Sieve (mm)	80 (0.180) Maximum

**Notes:**

- (1) Transmissivity measured using water at 21 ± 2°C (70 ± 4°F) with a gradient of 0.1 and a confining pressure of 10,000 psf (479 kPa) between steel plates after 15 minutes. Values may vary based on dimension of the transmissivity specimen and individual laboratory.
- (2) Condition 190/2.16
- (3) Minimum Average Roll Value (MARV) statistically defined as mean minus two standard deviations and is the value which is exceeded by 97.5% of all test data.
- (4) At time of manufacturing. Handling, storing, and shipping may change these properties.

*This information is provided for reference purposes only and is not intended as a warranty or guarantee. SKAPS assumes no liability in connection with the use of this information. Geonet and Geotextile properties are prior to lamination.*

**SKAPS Industries**

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