

GEOTEX® 1541NH is a polypropylene, staple fiber, needle-punched nonwoven geotextile produced by Propex, for use as an interlayer for separating cementitious pavement sections. The fibers are needled to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

GEOTEX 1541NH conforms to the typical property values listed below. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

PROPERTY	TEST METHOD		ENGLISH	METRIC
ORIGIN OF MATERIALS				
% U.S. Manufactured			100%	100%
PHYSICAL				
Color	Visual		Black	
Mass/Unit Area ²	ASTM D-5261		14.7 oz/yd ²	498 g/m²
Thickness 2 kPa Pressure ³	ASTM D-5199	EN ISO 9863-1	120 mils	3.0 mm
Thickness 20 kPa Pressure ³	ASTM D-5199	EN ISO 9863-1	100 mils	2.5 mm
Thickness 200 kPa Pressure ³	ASTM D-5199	EN ISO 9863-1	40 mils	1.0 mm
MECHANICAL				
Wide Width Tensile ²	ASTM D-4595	EN ISO 10319	685 lbs/ft	10 kN/m
Wide Width Tensile Elongation ²	ASTM D-4595	EN ISO 10319	130%	130%
HYDRAULIC				
Water Permeability in Normal Direction 20	ASTM D-5493	DIN 60500-4	3.3 x 10 ⁻⁴ ft/sec	1.0 x 10 ⁻⁴ m/sec
kPa Pressure ³				
In-Plane Water Permeability 20 kPa	ASTM D-6574	EN ISO 12958	1.6 x 10 ⁻² ft/sec	5.0 x 10 ⁻⁴ m/sec
Pressure ³				
In-Plane Water Permeability 200 kPa	ASTM D-6574	EN ISO 12958	6.6 x 10 ⁻⁴ ft/sec	2.0 x 10 ⁻⁴ m/sec
Pressure ³				
ENDURANCE				
Weather Resistance ³	ASTM D-4355	EN ISO 12224	70% Strength Retained	70% Strength Retained
			at 500 hours	at 500 hours
Alkali Resistance ³	-	EN ISO 13249, Annex B	\geq 97% Polypropylene	≥97% Polypropylene

NOTES:

1. The property values listed above are effective 01/09/2020 and are subject to change without notice. Values represent testing at time of manufacture.

2. MARV values shown represent weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degreee of confidence that any samples taken from quality assurance testing will exceed the value reported.

3. Minimum values shown represent weaker principal direction.

4. Contact your local Territory Business Manager (TBM) for custom widths and colors. Lead times may vary depending on customer requirements and volume requested.



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www.propexglobal.com

Propex Operating Company, LLC · 4019 Industry Drive · Chattanooga, TN 37416 · ph 800 621 1273 · ph 423 855 1466

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