GEOTEX® Nonwoven

Product Data

1541NH

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/yd²	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 kPa Pressure[3]	ASTM D-5493	DIN 60500-4	3.3 x 10^{-4} ft/sec	1.0 x 10^{-4} m/sec
In-Plane Water Permeability 20 kPa Pressure[3]	ASTM D-6574	EN ISO 12958	1.6 x 10^{-2} ft/sec	5.0 x 10^{-4} m/sec
In-Plane Water Permeability 200 kPa Pressure[3]	ASTM D-6574	EN ISO 12958	6.6 x 10^{-4} ft/sec	2.0 x 10^{-4} m/sec
ENDURANCE				
Weather Resistance[3]	ASTM D-4355	EN ISO 12224	70% Strength Retained at 500 hours	70% Strength Retained at 500 hours
Alkali Resistance[3]	-	EN ISO 13249, Annex B	≥ 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.

Propex® GEOSOLUTIONS

ENGINEERED PAVING SOLUTIONS™

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