

TEXSHIELD® NW Polypropylene

Product Description

TexShield® NW Polypropylene is our range of Non-Woven geotextiles. It is manufactured from polypropylene staple fibres which are mechanically bonded through needle-punching to form a strong, flexible and dimensionally stable fabric structure, with optimum pore sizes and high permeability.

It is resistant to chemicals and biological organisms normally found in soils and are stabilized against degradation due to short-term exposure to ultraviolet radiation.

Features & Benefits

- Staple fibres needle punched together to form a sturdy fabric capable of withstanding installation stresses.
- Excellent chemical resistance in even the most aggressive environmental applications.
- Mass per unit areas range from 150 to 600 g/m² (heavier products may be available by special order).
- Online calendaring and inspection assures good and consistent product quality.

General Areas of Application

- Landscaping
- Roof Garden
- Landfill
- Root Barrier System
- Drainage Application
- Erosion Control
- Road Construction

Test	ASTM Test Method	Unit	Value					
			NW 150	NW 200	NW 300	NW 400	NW 500	NW 600
MECHANICAL PROPERTIES								
Mass per Unit Area	D 5261	g/m ²	150	220	330	400	500	600
Thickness	D 5199	mm	1.3	1.7	2.1	2.7	2.9	3.4
Grab Tensile Strength	D 4632	N	540	720	1110	1325	1570	1980
Trapezoidal Tear Strength	D 4533	N	230	300	450	510	600	705
Elongation at Break	D 4632	%	60	60	60	60	60	60
Puncture Strength	D 4833	N	315	400	715	785	910	1080
HYDRAULIC PROPERTIES								
Apparent Opening Size	D 4751	µm	180	212	150	106	90	70
Permitivity	D 4491	s ⁻¹	2.4	1.6	1.2	0.8	0.7	0.6
Flow Rate @ 100mm Head		l/m ² /s	240	200	120	80	70	60
UV Resistance	D 4355	% at 500 hrs	70%	70%	70%	70%	70%	70%
TNZ F7 (2003)								
Strength Class			A	B	C	D	D	E
Filtration Class			1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4
Roll Size	Measured	m	5 x 100	5 x 100	5 x 100	5 x 100	5 x 50	5 x 50

The above values, unless otherwise specified, are the minimum acceptable average test results for any roll based on the specified test methods and do not refer to an individual test specimen. The data provided is for informational purposes only and is not intended as a warranty or guarantee. Values are subject to change without notice.

