

Nonwoven Catalog Sheet

US Fabrics offers a complete line of nonwoven fabrics made from 100% polypropylene staple filaments. These fabrics satisfy a wide range of applications including: filters in drainage applications; riprap and separators under pavements; erosion control; cushions for membranes and stabilizer/separators under railroad tracks.



STANDARD

PROPERTY	US 80NW	US 90NW	US 100NW	US 105NWE	US 120NW	US 135NW	US 160NW	US 165NWE	US 180NW	US 200NWE	US 205NW	US 225NWE	US 250NW	US 270NWE	US 300NW	US 330NWE	US 380NW	US 390NWE	US 425NWE
Elongation @ Break ASTM D-4632	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %
Weight ASTM D-5261	3.1 oz/y ²	3.5 oz/y ²	4 oz/y ²	4 oz/y ²	4.5 oz/y ²	5 oz/y ²	6 oz/y ²	6 oz/y ²	7 oz/y ²	7 oz/y ²	8 oz/y ²	8 oz/y ²	10 oz/y ²	10 oz/y ²	12 oz/y ²	12 oz/y ²	16 oz/y ²	14 oz/y ²	16 oz/y ²
Trapezoidal Tear ASTM D-4533	30 lbs	40 lbs	45 lbs	45 lbs	50 lbs	55 lbs	60 lbs	65 lbs	75 lbs	75 lbs	85 lbs	90 lbs	100 lbs	100 lbs	115 lbs	125 lbs	145 lbs	135 lbs	150 lbs
Apparent Opening Size ASTM D-4751	50 US Sieve	50 US Sieve	70 US Sieve	70 US Sieve	70 US Sieve	70 US Sieve	70 US Sieve	70 US Sieve	70 US Sieve	70 US Sieve	80 US Sieve	80 US Sieve	100 US Sieve	100 US Sieve	100 US Sieve	100 US Sieve	100 US Sieve	100 US Sieve	100 US Sieve
Water Flow Rate ASTM D-4491	150 g/min/f ²	150 g/min/f ²	140 g/min/f ²	160 g/min/f ²	135 g/min/f ²	115 g/min/f ²	110 g/min/f ²	125 g/min/f ²	105 g/min/f ²	110 g/min/f ²	95 g/min/f ²	100 g/min/f ²	80 gal/min/f ²	75 g/min/f ²	75 g/min/f ²	70 g/min/f ²	50 g/min/f ²	50 g/min/f ²	45 g/min/f ²
Mullen Burst ASTM D-3786	145 psi	185 psi	210 psi		225 psi	250 psi	305 psi		330 psi		350 psi		500 psi		580 psi		750 psi		
Pin Puncture ASTM D-4833	40 lbs	55 lbs	65 lbs		65 lbs	75 lbs	90 lbs		105 lbs		130 lbs		155 lbs		180 lbs		240 lbs		
UV Resistance @ 500 Hours ASTM D-4355	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %	70 %
Permittivity ASTM D-4491	2.2 Sec ⁻¹	2 Sec ⁻¹	2 Sec ⁻¹	2 Sec ⁻¹	1.7 Sec ⁻¹	1.6 Sec ⁻¹	1.5 Sec ⁻¹	1.63 Sec ⁻¹	1.4 Sec ⁻¹	1.41 Sec ⁻¹	1.4 Sec ⁻¹	1.26 Sec ⁻¹	1.2 Sec ⁻¹	0.94 Sec ⁻¹	1 Sec ⁻¹	0.9 Sec ⁻¹	0.7 Sec ⁻¹	0.64 Sec ⁻¹	0.57 Sec ⁻¹
Grab Tensile Strength ASTM D-4632	80 lbs	90 lbs	100 lbs	105 lbs	120 lbs	135 lbs	160 lbs	160 lbs	180 lbs	200 lbs	205 lbs	225 lbs	250 lbs	270 lbs	300 lbs	330 lbs	380 lbs	390 lbs	425 lbs
CBR Puncture ASTM D-6241	175 lbs	265 lbs	300 lbs	305 lbs	340 lbs	350 lbs	410 lbs	450 lbs	475 lbs	540 lbs	535 lbs	600 lbs	700 lbs	725 lbs	850 lbs	900 lbs	1,080 lbs	1,045 lbs	1,200 lbs
Thickness ASTM D-5199				70 mils				85 mils		90 mils		100 mils		110 mils		120 mils		135 mils	175 mils
Permeability ASTM D-4491				0.55 cm/sec				0.48 cm/sec		0.46 cm/sec		0.3 cm/sec		0.3 cm/sec		0.3 cm/sec		0.25 cm/sec	0.25 cm/sec

US Fabrics, Inc. | 3904 Virginia Avenue | Cincinnati, OH 45227
Phone: (800) 518-2290 | Fax: (513) 271-4420 | email: info@usfabrics.com

This information is provided for reference only and is not intended as a warranty or guarantee.
US Fabrics assumes no liability in connection with the use of this information.