

GeoFilter Product Data

Geostar nonwoven filter fabrics are proudly made in the USA and are composed of 100% polypropylene staple fibers that are needle-punched and formed into a random network for dimensional stability. They resist UV deterioration, rotting, biological degradation, and naturally encountered basics and acids.

Property	Unit	Test Method	GN31	GN35	GN40	GN42	GN60	GN70	GN80	GN100	GN120	GN160	GP38	GP42
Weight	oz/yd	ASTM D5261	3.1	3.5	4.0	4.2	6.0	7.0	8.0	10.0	12.0	16.0	3.8	4.2
Grab Tensile	lbs	ASTM D4632	80	90	100	120	160	180	205	250	300	380	90	102
Grab Elongation	%	ASTM D4632	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoid Tear	lbs	ASTM D4533	30	40	45	50	60	75	85	100	115	145	35	45
CBR Puncture Resistance	lbs	ASTM D6241	175	265	300	340	410	475	535	700	850	1080	55	60
Permittivity*	sec1	ASTM D4491	2.2	2	2.0	1.7	1.5	1.4	1.4	1.2	1.0	0.7	-	-
Water Flow*	gpm/ft2	ASTM D4491	150	150	140	135	110	105	95	80	75	50	-	-
A.O.S.*	U.S. Sieve	ASTM D4751	50	50	70	70	70	70	80	100	100	100	-	-
U.V. Resistance	%/hrs	ASTM D4355	70/500	70/500	70/500	70/500	70/500	70/500	70/500	70/500	70/500	70/500	70/500	70/500
Asphalt Retention	gal /yd2	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2
Melting Point	°F (°C)	-	-	-	-	-	-	-	-	-	-	-	300	300

* At the time of manufacturing. Handling, storage, and shipping may change these properties.

AASHTO

M288 Survivability Class	-	-	-	3	2	2	1	1	1	1	-	-
M288 Application2	-	-	S/F	S/F	SP, D	SP, D	SP, ST, D, E	SP, ST, D, E	SP, ST, D, E	SP, ST, D, E	-	A/O

Packaging

Roll Dimensions (FT)			12.5 x 360 15 x 360			12.5 x 360 15 x 300		12.5 x 360 15 x 300		15 x 150	6.25/ 10.5/ 12.5/ 15 x 300
Square Yards/Roll		500/600		500			500		250		250/420/500/600
Estimated Roll Weight	125/145	130/155	146/172	152/180	195	220	250	320	375	250	-

Updated as of January 2024

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