

G-TEX® GLP serials nonwovens are needle-punched geotextiles made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. They resist ultraviolet deterioration, rotting, biological degradation, naturally encountered basics, acids and alkali. They are used in various applications for drainage, filtration, separation and reinforcing etc. They function by restricting soil particles but allowing liquid and gases to easily pass through them and are used to improve the performance of environmental and civil construction projects such as Soil separation, Filtration, Erosion & sediment control, Sub-grade stabilization, Protection for geomembrane liners, Shoreline protection, Roadway separation, Road asphalt pavement anti cracking, Railroad stabilization, Subsurface drainage, Containment, Gas venting, Under riprap or around pipes etc. There are many benefits of nonwoven Geotextiles with its excellent chemical compatibility, long-term performance in strength and durability, extends road and railway life, cost-effective environmental alternative to traditional construction materials, prevents banks from soil erosion and easy to install etc.

Properties [Standard]	Value Type	Unit	GLP 1-1	GLP 1-2	GLP 1-3	GLP 1-4	GLP 1-5	GLP 1-6	GLP 2-1	GLP 2-2	GLP 2-3	GLP 2-4	GLP 2-5	GLP 2-6	GLP 2-7	GLP 3-1	GLP 3-2	GLP 3-3	GLP 3-4
SPECIFICATIONS & GRADES			4.1	4.4	5.3	5.9	7.4	8.0	8.8	10.0	10.3	11.8	14.7	16.2	17.7	22.1	26.5	29.5	35.4
			oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²	oz/y ²

Mechanical Properties

Tensile Strength [ASTM D 4595]	TYPICAL	KN/m	10.2	11.0	15.5	16.1	21.4	22.5	24.0	26.4	30.6	37.6	40.8	42.5	44.2	65.3	73.2	75.6	93.6
	MARV		6.8	7.1	10.0	10.5	13.0	14.5	16.0	17.0	23.8	25.2	28.6	29.5	30.3	47.4	52.5	54.2	62.4
Tensile Elongation [ASTM D 4595]	TYPICAL	%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	MARV		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Grab Strength [ASTM D 4632]	TYPICAL	N	545	570	790	900	1,060	1,110	1,190	1,380	1,580	1,840	2,290	2,440	2,580	3,180	3,590	4,680	5,280
	MARV		420	440	620	670	780	840	900	1,130	1,450	1,700	2,050	2,160	2,270	2,780	2,880	3,560	4,440
Grab Elongation [ASTM D 4632]	TYPICAL	%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	MARV		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoidal Tear [ASTM D 4533]	TYPICAL	N	190	240	260	290	420	470	530	550	600	720	890	920	940	1,310	1,630	1,610	1,720
	MARV		155	200	220	240	320	380	450	470	520	540	750	770	800	910	1,400	1,220	1,260
Pin Puncture Resistance [ASTM D4833]	TYPICAL	N	295	340	410	450	600	650	710	770	940	1,170	1,340	1,500	1,650	2,030	2,400	2,700	3,300
	MARV		220	250	320	350	470	505	555	600	790	980	1,120	1,285	1,450	1,790	2,110	2,380	2,900
CBR Burst Strength [ASTM D 6241]	TYPICAL	N	1,740	1,800	2,230	2,610	2,990	3,150	3,340	4,320	4,870	5,950	7,370	7,800	8,230	11,650	12,480	13,800	14,400
	MARV		1,300	1,360	1,930	1,900	2,420	2,600	2,800	3,890	4,410	5,520	5,940	6,670	7,410	8,280	10,080	10,760	10,800

Hydraulic Properties

Flow Rate @100mm head [ASTM D 4491]	MARV	l/sec/m ²	160	150	125	90	80	75	65	55	55	50	50	50	50	35	25	10	10
Permittivity [ASTM D 4491]	MARV	Sec ⁻¹	1.60	1.50	1.25	0.90	0.80	0.75	0.65	0.55	0.55	0.50	0.50	0.50	0.50	0.35	0.25	0.10	0.10
Apparent Opening Size O ₉₅ [ASTM D 4751]	Max	µm	180	180	150	150	120	120	110	110	110	90	80	75	N/A	N/A	N/A	N/A	N/A

Endurance Properties

Chemical Resistance [ASTM D6389]	TYPICAL	%	Wide width tensile strength retained by not less than 99% (pH2 - pH13)																
UV Resistance [ASTM D 4355]	TYPICAL	%	Wide width tensile strength retained by not less than 70% after 500h exposure																

Physical Identification Properties

Thickness [ASTMD5199]	TYPICAL	mm	1.1	1.2	1.4	1.5	1.6	1.6	1.7	2.0	2.1	2.2	2.9	3.3	3.8	4.3	5.0	5.3	6.0
Approx Load Q'ty / 40' HQ		Rolls(>=)	Determined according to the customized specifications																
		Sq. m	Determined according to the customized specifications																

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GeoTrans keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GeoTrans does not warrant its accuracy or completeness. The only warranty made by GeoTrans for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GeoTrans and customer. GeoTrans specifically disclaims all other warranties express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.



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