

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			9KN/m		13KN/m	15KN/m	19KN/m		21KN/m	24KN/m									
GRADES			NW9		NW13	NW15	NW19		NW21	NW24									

Mechanical Properties

Tensile Strength [ISO 10319]	mean	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
Tensile Elongation [ISO 10319]	mean	%	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Grab Strength [ASTM D 4632]	mean	N	545	570	790	800	1,110	1,060	1,190	1,380	1,580	1,840	2,290	2,440	2,580	3,180	3,590	4,680	5,280
Grab Elongation [ASTM D 4632]	mean	%	50	50	50	50	60	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoidal Tear [ASTM D 4533]	mean	N	190	240	260	290	470	420	530	550	600	720	890	920	940	1,310	1,630	1,610	1,720
Drop Cone [ISO 13433]	mean	mm	29	28	21	19	16	15	14	13	13	11	10	9	-	-	-	-	-
CBR Burst Strength [ISO 12236]	mean	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

Tolerance: The deviation of mechanical properties is ±5%.

Hydraulic Properties

Flow Rate @100mm head [ISO 11058]	mean	l/sec/m²	160	150	125	90	75	80	65	55	55	50	50	50	50	35	25	10	10
Permittivity [ISO 11058]	mean	Sec ⁻¹	1.60	1.50	1.25	0.90	0.75	0.80	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	-	-	-	-	-

Tolerance: The deviation of hydraulic properties is ±30%

Endurance Properties

Chemical Resistance [ISO 12960]	Mean	%	Wide width tensile strength retained by not less than 99% (pH2 - pH13)																
UV Resistance [ISO 4892]	mean	%	Wide width tensile strength retained by not less than 70% after 500h exposure																

Physical Identification Properties

Thickness [ISO 9863]	mean	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
Roll Width		m(<=)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Roll Length		m	Determined according to the customized specifications																
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 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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