GeoTrans Technology
Innovative Geosynthetics to Global Needs

G-Tex® GLP Range Geotextiles

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				MRTS 27	MRTS 27		MRTS 27			MRTS 27		MRTS 27							
GRADES				CLASS A	CLASS B		CLASS C			CLASS D		CLASS E							
Mechanical Properties																			
Tensile Strength [AS3706.2a]	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 [AS3706.2a]	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
Wide Strip Toughness [AS3706.2]	TYPICAL	kJ/m^2	3.1	3.3	4.7	4.8	6.4	6.8	7.2	7.9	9.2	11.3	12.2	12.8	13.2	19.6	22.0	22.7	28.1
	MARV		1.7	1.8	2.5	2.6	3.3	3.6	4.0	4.3	6.0	6.3	7.2	7.4	7.6	11.9	13.1	13.6	15.6
Grab Strength [AS3706.2b]	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
	Characteristic		490	520	720	750	940	960	1,070	1,280	1,530	1,780	2,190	2,320	2,450	3,020	3,290	4,210	4,930
	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 [AS3706.2b]	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 [AS3706.3]	TYPICAL	N	190	240	290	330	420	470	530	550	600	720	890	920	940	1,310	1,630	1,800	2,160
	Characteristic		175	220	260	295	380	430	500	520	570	670	830	860	880	1,140	1,540	1,700	2,040
	MARV		155	200	215	245	320	380	450	470	520	600	750	770	800	910	1,400	1,550	1,860
CBR Burst Strength [AS3706.4]	TYPICAL	KN	1.74	1.80	2.23	2.61	2.99	3.15	3.34	4.32	4.87	5.95	7.37	7.80	8.23	11.65	12.48	13.80	14.40
	MARV		1.30	1.36	1.93	1.90	2.42	2.60	2.80	3.89	4.41	5.52	5.94	6.67	7.41	8.28	10.08	10.76	10.80
Drop Cone H_{50} [AS 3706.5]	TYPICAL	N	950	1,000	1,800	1,700	2,400	2,900	3,470	3,560	3,600	3,950	4,200	4,430	N/A	N/A	N/A	N/A	N/A
	Characteristic		855	900	1,620	1,530	2,160	2,610	3,120	3,200	3,240	3,560	3,780	3,990	N/A	N/A	N/A	N/A	N/A
G Rating [Austroads]	TYPICAL	N	1290	1,340	2,000	2,110	2,680	3,020	3,400	3,920	4,190	4,850	5,560	5,880	N/A	N/A	N/A	N/A	N/A
	Characteristic		1160	1,200	1,850	1,880	2,440	2,750	3,120	3,640	3,900	4,550	5,060	5,410	N/A	N/A	N/A	N/A	N/A
Endurance Properties																			
Chemical Resistance [AS 3706.12]	TYPICAL	%	Wide width tensile strength retained by not less than 99% (pH2 - pH13)																
UV Resitance [AS 3706.11]	TYPICAL	%	Narrow width tensile strength retained by not less than 70% after 500h exposure																
Hydraulic Properties																			
Flow Rate @100mm head [AS 3706.9]	MARV	$l/s/m^2$	160	150	125	90	80	75	65	55	55	50	50	50	50	35	25	10	10
Permittivity [AS 3706.9]	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} [AS 3706.7]	Max	μm	180	180	150	150	120	120	110	110	110	90	80	75	N/A	N/A	N/A	N/A	N/A
Physical Identification Properties																			
Thickness [AS 3706.1]	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																
		m^2	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 rising from provision of samples, a course of dealing or usage of trade.

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