

AmTec Woven Geo Fabric Series

SAPPL
RD-0860-QCD-06
REV NO:- 01

AmTec Woven Geo Fabric Series is a Woven Geotextile Fabric, manufactured and supplied by Shri Ambica Polymer Pvt. Ltd. and will meet the following values when tested in accordance with the ASTM test methods listed below, unless otherwise stated.

ISSUE No:- 02 | DATE: 25/09/2023

PROPERTIES (Test Methods)	Units (English)	MINIMUM AVERAGE ROLL VALUE ³ (MD CMD)								TYPICAL AVERAGE VALUE (MD CMD)
		Geo 180W	Geo 200W	Geo 250W	Geo 270W	Geo 315W	Geo 350W	Geo 2X2 HF	Geo 3X3 HF	
AASHTO M288-22 Class		III	III	II & III	II & III	I, II & III	I, II & III	NTPEP Listed	-	-
Grab Tensile Strength (ASTM D4632)	Lbf	180 180	200 200	250 250	270 270	315 315	350 350	295 260	450 350	315 315
Grab Elongation (ASTM D4632)	%	15 15	15 15	15 15	15 15	15 15	15 15	13 12	15 15	15 15
Trapezoidal Tear Strength (ASTM D4533)	Lbf	70 70	75 75	90 90	100 100	120 120	135 135	110 130	180 140	120 120
Static Puncture Strength (ASTM D6241)	Lbf	650	700	750	1000	900	1000	1000	1600	900
Tensile Strength at Ultimate (ASTM D-4595)	lbs/ft	-	-	-	-	-	-	2640 2460	3600 3600	-
Elongation at Break (ASTM D-4595)	%	-	-	-	-	-	-	-	-	-
Tensile Strength @ 2 % Strain (ASTM D-4595)	lbs/ft	-	-	-	-	-	-	504 600	480 420	-
Tensile Strength @ 5 % Strain (ASTM D-4595)	lbs/ft	-	-	-	-	-	-	1272 1440	1392 1740	-
Tensile Strength @ 10 % Strain (ASTM D-4595)	lbs/ft	-	-	-	-	-	-	-	-	-
ENDURANCE										
UV Resistance @ 500HR ⁴ (ASTM D4355)	%	70	70	70	70	70	70	80	80	70
HYDRAULIC										
Permittivity (ASTM D4491)	s-1	0.05	0.05	0.05	0.05	0.05	0.08	0.6	0.8	0.39
Water Flow Rate (ASTM D4491)	gal/min/ft ²	4	4	4	4	4	6	45	60	29
Opening Size O95 (A.O.S.) (ASTM D4751) Max. ARV	U.S. Sieve	40	40	40	40	40	30	30	30	-
ROLL SIZES ⁵	ft	12.5 x 432	12.5 x 432	12.5 x 360	12.5 x 360	12.5 x 360	12.5 x 360	15.0 x 300	15.0 x 300	15.0 x 300
		15.0 x 360	15.0 x 360	15.0 x 300	15.0 x 300	15.0 x 300	15.0 x 300			
		17.5 x 309	17.5 x 309	17.5 x 258	17.5 x 258	17.5 x 258	17.5 x 258			



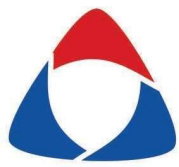
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AMTEC PRODUCT	CLASS	GRAB TENSILE STRENGTH	TRAPEZOIDAL TEAR STRENGTH	G RATING	EOS - PORE SIZE - O95	FLOW RATE (Q100)
		N	N	-	µm	l/m2/s
		AS 3706.2	AS 3706.3	AUSTROADS 90	AS 3706.7	AS 3706.9
		Q VALUE	Q VALUE	Q VALUE	MEAN	MEAN
GEO 180W	A	>800	>300	>1350	<600	<30
GEO 250W	B	>1100	>400	>2000	<600	<30
GEO 315W	C	>1400	>500	>3000	<600	<30
GEO 6065W	D	>1900	>700	>4500	<600	<30

Note :

The characteristic value is defined as Q value for the lot tested.
For additional notes, refer page 3.



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PROPERTIES (Test Methods)	Units (Metric)	MINIMUM AVERAGE ROLL VALUE ³ (MD CMD)									TYPICAL AVERAGE VALUE (MD CMD)
		Geo 180W	Geo 200W	Geo 250W	Geo 270W	Geo 315W	Geo 350W	Geo 2X2 HF	Geo 3X3 HF	Geo 240CW	
MECHANICAL											
AASHTO M288 - Class		III	III	II & III	II & III	I, II & III	I, II & III	NTPEP listed	-	-	
Grab Tensile Strength (ASTM D4632)	N	801 801	890 890	1112 1112	1201 1201	1401 1401	1557 1557	1312 1157	2002 1557	1401 1401	
Grab Elongation (ASTM D4632)	%	15 15	15 15	15 15	15 15	15 15	15 15	13 12	15 15	15 15	
Trapezoidal Tear Strength (ASTM D4533)	N	311 311	334 334	400 400	445 445	534 534	601 601	489 578	801 623	534 534	
Static Puncture Strength (ASTM D6241)	N	2891	3114	3336	4448	4003	4448	4448	7117	4003	
Tensile Strength at Ultimate (ASTM D-4595)	kN/m	-	-	-	-	-	-	39 36	53 53	-	
Elongation at Break (ASTM D-4595)	%	-	-	-	-	-	-	-	-	-	
Tensile Strength @ 2 % Strain (ASTM D-4595)	kN/m	-	-	-	-	-	-	7 9	7 6	-	
Tensile Strength @ 5 % Strain (ASTM D-4595)	kN/m	-	-	-	-	-	-	19 21	20 25	-	
Tensile Strength @ 10 % Strain (ASTM D-4595)	kN/m	-	-	-	-	-	-	-	-	-	
ENDURANCE											
UV Resistance @ 500HR ⁴ (ASTM D4355)	%	70	70	70	70	70	70	80	80	70	
HYDRAULIC											
Permittivity (ASTM D4491)	s-1	0.05	0.05	0.05	0.05	0.05	0.08	0.6	0.8	0.39	
Water Flow Rate (ASTM D4491)	l/m ² .s	3	3	3	3	3	4	30	40	20	
Opening Size O95 (A.O.S.) (ASTM D4751 _{Max.} ARV)	mm	0.425	0.425	0.425	0.425	0.425	0.6	0.6	0.6	-	
ROLL SIZES ⁵	Meter	3.81 x 132	3.81 x 132	3.81 x 132	3.81 x 132	3.81 x 132	3.81 x 132	4.5 x 91.4	4.5 x 91.4	3.81 x 132	
		4.5 x 110	4.5 x 110	4.5 x 110	4.5 x 110	4.5 x 110	4.5 x 110			4.5 x 110	
		5.3 x 94	5.3 x 94	5.3 x 94	5.3 x 94	5.3 x 94	5.3 x 94			5.3 x 94	

Note :

- As a part of continual improvement process Shri Ambica Polymer Pvt .Ltd reserves the right to change the properties listed on this data sheet without prior notice.
- This data sheet supersedes any other previous issued data sheet.
- Values shown are in the weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations.Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
- Typical average value.
- These figures related to standard products weights and roll sizes. Other weights, sizes and colors may be available on request.
- Damage caused due to improper handling or storage will not be covered under any warranty.

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