

TEST REPORT
FALLING HEAD PERMITTIVITY (ASTM D 4491, 2.85-in Upper Standpipe; 50mm opening)

Date/time of testing: 22.04.24

Fabric	GS55	Tracking#	24BD10C18	Time of Testing	01	Lot#	BD100124
Specifications	17.5'	Date of Prod.	18.04.24	Test#	210424		

Water Temp. © 20.5
Correction Factor: 0.989

a-R: 40.7 cm²
a-L: 41.7 cm²
A: 20.3 cm²

	L					R					L					R					ln(h ₀ /h ₁) 1.386	
Trial	1					2					3					4					Mean	Std.Dev
Thickness (mm)	0.410	0.410	0.410	0.410	0.410	0.382	0.382	0.382	0.382	0.382	0.410	0.410	0.410	0.410	0.410	0.420	0.420	0.420	0.420	0.420		
Time (s)	36.60	36.60	36.60	36.60	36.60	22.70	22.70	22.80	22.80	22.80	23.90	23.90	23.90	23.90	23.90	20.80	20.90	20.90	21.00	20.90		
Permittivity (s ⁻¹)	0.077	0.077	0.077	0.077	0.077	0.121	0.121	0.121	0.121	0.121	0.118	0.118	0.118	0.118	0.118	0.132	0.132	0.132	0.131	0.132	0.112	0.0213
Flow rate (GPM/ft ²)	4.96	4.96	4.96	4.96	4.96	8.00	8.00	7.97	7.97	7.97	7.60	7.60	7.60	7.60	7.60	8.73	8.69	8.69	8.65	8.69	7.31	1.45
Permeability (cm/s)	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.0009

Yes ☐ No ☐

Solution for Non-Compliance:

Carried out by: IRM; Calibrated by: PTNGL; Calibration No: 0123
Test results reported herein do not apply to samples other than those tested.

Chief of Division

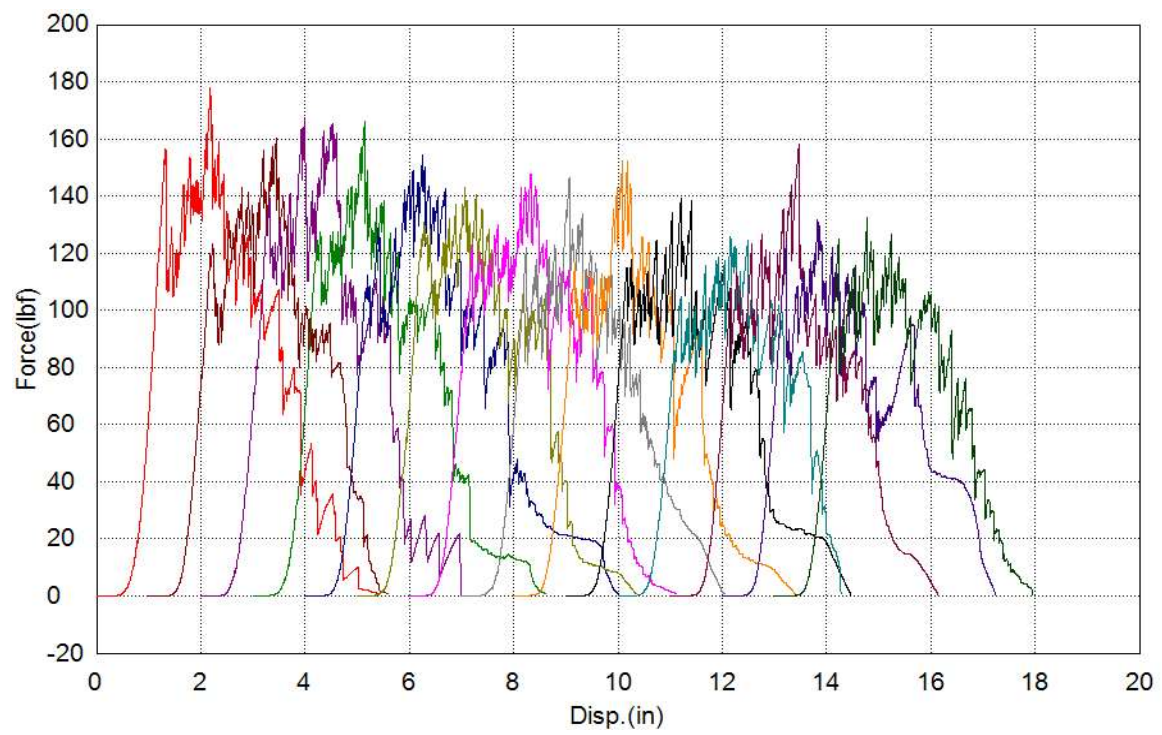
Operator

KHANG

TEST REPORT

Company	GIA LOI JSC	Product Name	GS5.5
Address	Binh Duong, Viet Nam	Tracking #	24BD10C18
Method File Name	ASTM D4533.lmax	Test File Name	24BD10C18.ltax
Speed	11.81102in/min	Lot #	
Test Type	Tensile	Date of prod	
No of Batches:	2	Test #	
Qty/Batch:	7	Test Date	2024/04/22
Form	TN-QT D4533-BM01/00	Report Date	2024/04/22
Times of Testing	01	Operator	

Name Parameters Unit	Max_Force Calc. at Entire Ar lbf
1 _ 1	177.834
1 _ 2	160.363
1 _ 3	167.289
1 _ 4	166.039
1 _ 5	154.346
1 _ 6	143.111
1 _ 7	147.562
Average	159.506
Standard Deviation	12.0967
Maximum	177.834
Minimum	143.111
2 _ 1	146.355
2 _ 2	152.373
2 _ 3	139.238
2 _ 4	125.641
2 _ 5	157.964
2 _ 6	131.637
2 _ 7	132.622
Average	140.833
Standard Deviation	11.8495
Maximum	157.964
Minimum	125.641
TotalAverage	150.170
TotalStandard De	15.0407
TotalMaximum	177.834
TotalMinimum	125.641

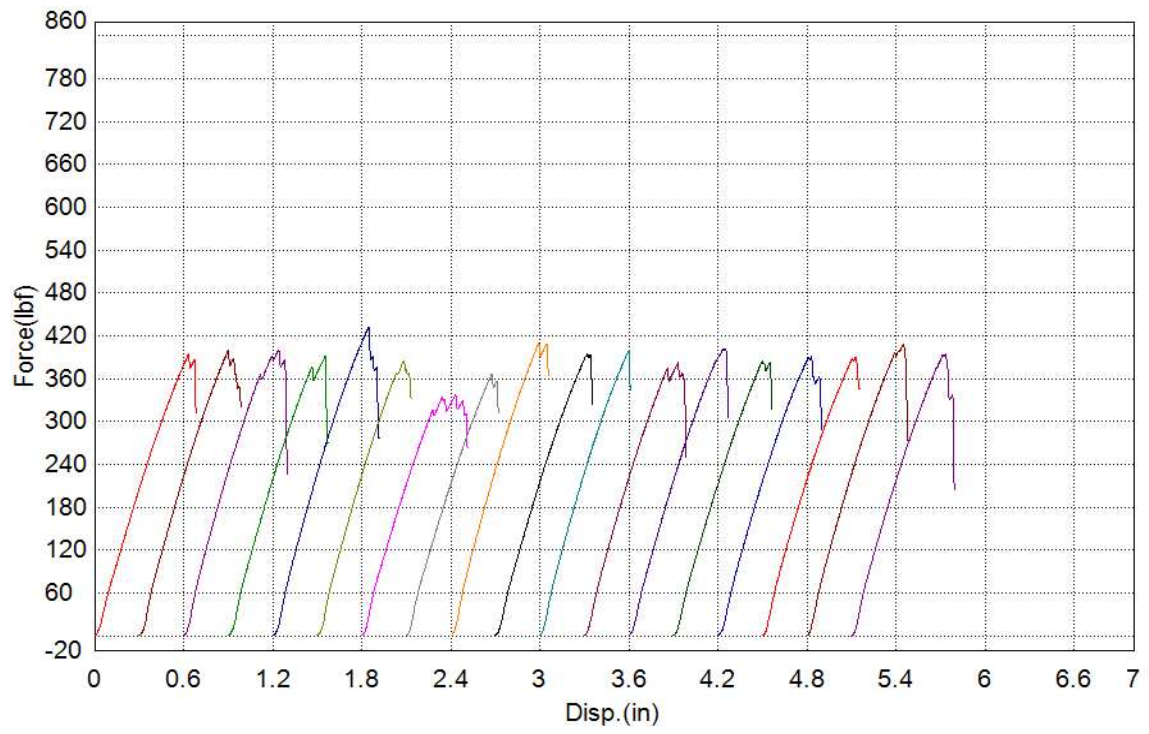


Yes: . No: Solution for Non-compliance:
Carried out by: MTN12.Calibrated by:KT3.Calibration No:KT3-00443BCO4/2
Test results reported herein do not apply to samples other than those tested.

TEST REPORT

Company	GIA LOI JSC	Product Name	GS5.5
Address	Binh Duong, Viet Nam	Tracking #	24BD10C18
Method File Name	ASTM D4632...lmax	Test File Name	24BD10C18.ltax
Speed	12in/min	Lot #	BD090324
Test Type	Tensile	Date of prod	17.04.24
No of Batches:	2	Test #	190424
Qty/Batch:	9	Test Date	2024/04/22
Form	TN-QT D4632-BM01/00	Report Date	2024/04/22
Times of Testing	01	Operator	KHANG

Name Parameters Unit	Break_Force Sensitivity 10 lbf	Break_Strain Sensitivity 10 %
1 _ 1	394.183	21.1168
1 _ 2	399.284	20.0510
1 _ 3	399.729	21.3175
1 _ 4	391.048	21.8506
1 _ 5	432.581	21.6511
1 _ 6	385.280	19.5170
1 _ 7	338.014	21.1168
1 _ 8	366.354	19.2508
1 _ 9	409.747	19.7842
Average	390.691	20.6284
Standard Deviation	26.6510	0.97920
Maximum	432.581	21.8506
Minimum	338.014	19.2508
2 _ 1	391.951	21.2505
2 _ 2	399.227	19.9844
2 _ 3	382.491	21.0500
2 _ 4	400.468	21.5839
2 _ 5	381.882	20.3836
2 _ 6	390.688	21.0501
2 _ 7	390.131	20.9836
2 _ 8	408.722	21.7174
2 _ 9	395.537	21.1839
Average	393.455	21.0208
Standard Deviation	8.62427	0.54371
Maximum	408.722	21.7174
Minimum	381.882	19.9844
TotalAverage	392.073	20.8246
TotalStandard De	19.2684	0.79441
TotalMaximum	432.581	21.8506
TotalMinimum	338.014	19.2508



Yes: . No: Solution for Non-compliance:
Carried out by: MTN16.Calibrated by:KT3.Calibration No:KT3-00443BCO4/2
Test results reported herein do not apply to samples other than those tested.

TEST REPORT
DETERMINATION OF AOS OF GEOTEXTILE (ASTM D4751)

Date/time of Testing: 22.04.24 Date/time of submerge specimens: 20.04.24

Fabric	GS55	Tracking #	24BD10C18	Times of Testing	01	Lot#	BD100124
Specifications	17.5'	Date of Prod.	18.04.24	Test #	210424		

Sample No	Range (mm)		Minimum	Wt.F+G	Wt. F+G	Wt.Beads	%	Wt.Pan	Wt. Pan	Wt.Beads	%	Wt.F+G	Wt.F+G	Wt.Retained	% Retained
	US Std Mesh		Dia. (mm)	W/Beads			Retained/lost	W/Beads			Passing	Before	After	in Geotextile	in Geotextile
1	0.250	- 0.212	0.212	829.6	819.4	10.24	-0.08	573.5	533.7	39.76	79.52	819.4	819.4	0.00	0.00%
	0.355	- 0.300	0.300	869.2	819.4	49.82	-0.04	533.9	533.7	0.17	0.34	819.4	819.4	0.01	0.02%
2	0.250	- 0.212	0.212	842.6	799.4	43.17	0.06	538.4	531.6	6.83	13.66	799.4	799.4	0.00	0.00%
	0.355	- 0.300	0.300	849.3	799.4	49.94	-0.08	531.7	531.6	0.05	0.1	799.4	799.4	0.01	0.02%
3	0.250	- 0.212	0.212	830.9	812.7	18.21	-0.02	565.6	533.8	31.79	63.58	812.7	812.7	0.00	0.00%
	0.355	- 0.300	0.300	862.5	812.7	49.79	0.02	534.0	533.8	0.2	0.4	812.7	812.7	0.01	0.02%
4	0.250	- 0.212	0.212	827.9	816.9	10.96	0.08	568.2	529.2	39.04	78.08	816.9	816.9	0.00	0.00%
	0.355	- 0.300	0.300	865.8	816.9	48.9	0.00	530.3	529.2	1.09	2.18	816.9	816.9	0.01	0.02%
5	0.250	- 0.212	0.212	829.4	809.4	20.01	-0.02	396.8	366.8	29.99	59.98	809.4	809.4	0.00	0.00%
	0.355	- 0.300	0.300	858.8	809.4	49.43	-0.06	367.4	366.8	0.57	1.14	809.4	809.4	0.00	0.00%

Yes ☐ No ☐ AOS = 0.290 mm Std.Dev: 0.0120
Solution for Non-Compliance:

Carried out by: IRM; Calibrated by: PTNGL; Calibration No: 0123
Test results reported herein do not apply to samples other than those tested.

Chief of Division

Operator

KHANG

TEST REPORT
PRODUCT MASS PER UNIT AREA TEST RESULTS (ASTM D5261)

Date of testing: .04.24

Fabric	GS55	Tracking #	24BD10C18	Times of Testing	01	Lot#	BD100124
Specifications	17.5'	Date of Prod.	18.04.24	Test #	210424		

No.	1	2	3	4	5	6	7	8	9	10	Mean	Std.Dev
Specimen size (mm ²)	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	
Mass per Unit Area (gsm)	183	184	186	187	185	185	185	187	187	184	185.3	1.41814

Yes : ☐

No: ☐

Solution for Non-Compliance:

Carried out by: MTN14; Calibrated by: SMEDEC1; Calibration No: 16609

Test results reported herein do not apply to samples other than those tested.

Chief of Division:

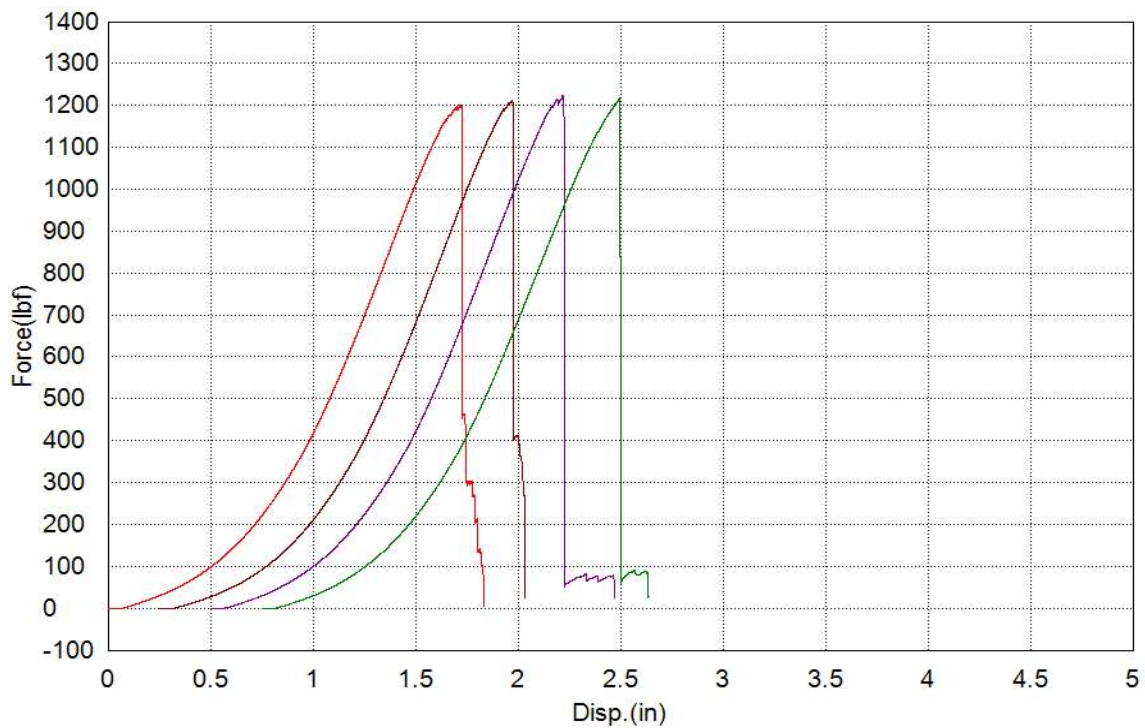
Operator

KHANG

TEST REPORT

Company	GIA LOI JSC	Product Name	GS55
Address	Binh Duong, Viet Nam	Tracking #	24BD10C18
Method File Name	ASTM D6241.lmax	Test File Name	24BD10C18_6241.ltax
Speed	1.968504in/min	Lot #	BD100124
Test Type	Compression	Date of prod:	20.04.24
No of Batches:	1	Test #	210424
Qty/Batch:	4	Test Date	2024/04/22
Form	TN-QT D6241-BM01/00	Report Date	2024/04/22
Times of Testing	01	Operator	KHANG

Name Parameters Unit	Max_Force Calc. at Entire Ar lbf
1 _ 1	1199.87
1 _ 2	1212.25
1 _ 3	1222.34
1 _ 4	1218.29
Average	1213.19
Standard Deviation	9.79861
Maximum	1222.34
Minimum	1199.87



Yes: . No: Solution for Non-compliance:
Carried out by: MTN12.Calibrated by:KT3.Calibration No:KT3-00443BCO4/2
Test results reported herein do not apply to samples other than those tested.