

Altaf Hussain

Test Performed By: Dr. /Engr. Nauman Khurram

M. E. A.S. Enterprises, Consultant: AA Associates(Project: Style Textile Managa / Style Textile Rewind)

Client Reference: USD/ASE/24

Dated: 25-11-2020

SOM Lab Ref: CED/SOM/3322(Page-1/1)

Dated: 25-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.924	25	25.23	491	500	244.50	340.00	498	489	693	680	37.5	200	18.8	
2	3.903	25	25.16	491	497	238.70	335.20	486	481	683	675	35.0	200	17.5	
3	2.360	20	19.57	314	301	176.50	229.20	562	587	730	763	30.0	200	15.0	
4	2.360	20	19.57	314	301	178.00	229.70	567	592	731	764	25.0	200	12.5	
5	1.535	16	15.78	201	196	81.00	116.20	403	415	578	595	40.0	200	20.0	
6	1.541	16	15.81	201	196	81.70	116.70	406	417	580	595	42.5	200	21.3	
7	0.885	12	11.98	113	113	70.00	82.20	619	621	727	730	25.0	200	12.5	
8	0.877	12	11.93	113	112	62.00	75.70	548	556	669	678	25.0	200	12.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Ali Rehan Saleem
AD (Works -III) Overseas Pakistan Foundation, Islamabad

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: OPF/3541/LHR/WD

SOM Lab

Ref: 3317(Page-1/1)

Dated: 19-11-2020

Dated: 25-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.597	8	0.986	0.79	0.763	24.64	35.75	68790	71220	99800	103330	1.50	8.0	18.8	
2	1.524	6	0.755	0.44	0.448	13.25	20.18	66430	65240	101170	99360	1.60	8.0	20.0	
3	0.663	4	0.498	0.20	0.195	6.32	9.35	69700	71480	103080	105720	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Aslam
Deputy Director (P & D), National Textile University

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: NTU/G.H/C.W/20-25

SOM Lab

Ref: 3319(Page-1/1)

Dated: 24-11-2020

Dated: 25-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.63	8.87	73070	74180	97800	99290	1.20	8.0	15.0	
2	0.672	4	0.501	0.20	0.197	6.68	8.92	73630	74750	98360	99860	1.20	8.0	15.0	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Executive Engineer PWD,
Highways Division Bhimber AK.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil

SOM Lab

Ref: 3320(Page-1/1)

Dated: nil

Dated: 25-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.425	6	0.730	0.44	0.419	12.92	16.77	64740	67980	84050	88270	1.70	8.0	21.3	
2	0.651	4	0.493	0.20	0.191	5.86	8.56	64640	67680	94420	98870	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Wajid Ali Shah
GM - Works, FF Steel Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil
Dated: 23-11-2020
Test: Tension Test
Gauge Length: 8 inch

SOM Lab
Ref: 3321(Page-1/1)
Dated: 25-11-2020
Test Specification: ASTM-A-615
Sample Type: Deformed Bar(FF Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.657	4	0.496	0.20	0.193	6.54	8.66	72170	74790	95550	99010	1.40	8.0	17.5	
2	0.657	4	0.496	0.20	0.193	6.44	8.61	71040	73620	94990	98430	1.40	8.0	17.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk