

Sub Divisional officer,

**Test Performed By:**

**Dr. /Engr. Asad Ali Gillani**

BSD Nankana Sahib.(Estb Of Govt. Associate College For Boys Sysed Wala Nankana Sahib)

**Client Reference:** 598/SDO/BSD/NNS

**SOM Lab Ref:** 5984 (Page-1/1)

**Dated:** 13-01-2022

**Dated:** 03-03-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

ASTM-A-615

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.591	8	0.984	0.79	0.761	22.24	30.22	62100	64460	84380	87590	1.40	8.0	17.5	
2	2.594	8	0.985	0.79	0.762	24.67	34.20	68870	71400	95480	98990	1.40	8.0	17.5	
3	1.533	6	0.758	0.44	0.451	16.41	22.34	82260	80260	112000	109270	1.50	8.0	18.8	
4	1.530	6	0.757	0.44	0.450	16.56	22.43	83030	81190	112410	109910	1.40	8.0	17.5	
5	0.635	4	0.488	0.20	0.187	6.88	8.58	75880	81150	94650	101230	1.00	8.0	12.5	
6	0.642	4	0.491	0.20	0.189	7.31	8.87	80600	85290	97800	103490	1.00	8.0	12.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Banu Mukhtar Contracting,  
QA/QC Engineer, Lahore.(US Apparel Unit No 5)

**Test Performed By:** Dr. /Engr. Asad Ali Gillani

**Client Reference:** Nil

**SOM Lab Ref:** 5985 (Page-1/1)

**Dated:** 02-03-2022

**Dated:** 03-03-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.568	8	0.980	0.79	0.755	26.40	33.81	73710	77120	94400	98770	1.40	8.0	17.5	
2	2.564	8	0.980	0.79	0.754	26.46	33.64	73880	77410	93910	98400	1.30	8.0	16.3	
3	1.639	6	0.783	0.44	0.482	16.20	21.83	81190	74120	109450	99910	1.20	8.0	15.0	
4	1.634	6	0.782	0.44	0.480	15.62	21.51	78280	71760	107810	98830	1.30	8.0	16.3	
5	0.589	4	0.469	0.20	0.173	6.27	7.59	69130	79920	83750	96820	1.00	8.0	12.5	
6	0.605	4	0.476	0.20	0.178	6.32	7.80	69700	78310	85990	96620	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine 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](http://www.uet-civil.edu.pk)

Furqan Ali Malik (CRE)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Pkg-1 Nesapk Lhr.(Const/Rehb Of Grade From Warra Chungi Stop To Quaid-E-Azam Interchange)

Client Reference: 4042/13/FAM/Steel-205

SOM Lab 5986 (Page-Ref: 1/1)

Dated: 14-02-2022

Dated: 03-03-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Koh E Noor)

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.612	4	0.479	0.20	0.180	5.71	8.43	62950	69950	92960	103290	1.00	8.0	12.5	
2	0.617	4	0.480	0.20	0.181	5.42	7.19	59800	66080	79250	87570	0.90	8.0	11.3	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional officer,

**Test Performed By:**

**Dr. /Engr. Asad Ali Gillani**

PHE: SD Khushab.(Const.Of PCC Slab, Surface Drain, Sullage Carrier,Culverts & Other Allied Works)

**Client Reference:** 67/KHB

**SOM Lab**

5987 (Page-

**Ref:**

1/1)

**Dated:** 19-01-2022

**Dated:**

03-03-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.515	6	0.753	0.44	0.445	13.66	21.51	68470	67700	107810	106600	1.20	8.0	15.0	
2	1.508	6	0.751	0.44	0.443	13.58	21.38	68060	67600	107150	106420	1.20	8.0	15.0	
3	0.666	4	0.500	0.20	0.196	5.83	8.99	64300	65610	99150	101170	1.20	8.0	15.0	
4	0.662	4	0.498	0.20	0.195	5.91	9.02	65200	66870	99480	102030	1.30	8.0	16.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Arif

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Sr. QS Manzoor Ahmad Khan Lahore.(Project E-Techi Mobiles-Raiwind)

Client Reference: TCC/UET/317

SOM Lab 5989 (Page-1/1)  
Ref:

Dated: 01-03-2022

Dated: 03-03-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.437	6	0.733	0.44	0.422	10.62	15.46	53240	55510	77510	80820	1.00	8.0	12.5	
2	1.439	6	0.734	0.44	0.423	10.62	15.55	53240	55380	77920	81050	1.00	8.0	12.5	
3	0.925	5	0.588	0.31	0.272	7.41	11.47	52730	60090	81590	92990	1.30	8.0	16.3	
4	0.925	5	0.588	0.31	0.272	7.34	11.28	52220	59510	80280	91500	1.20	8.0	15.0	
5	0.555	4	0.456	0.20	0.163	4.96	7.51	54750	67170	82850	101650	1.00	8.0	12.5	
6	0.550	4	0.454	0.20	0.162	4.86	7.51	53620	66200	82850	102280	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
# 5	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](http://www.uet-civil.edu.pk)

Khurram Shahzad  
S.E(Civil)-II PAEC WASO.

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: Misc.Work-2021 at DGK

SOM Lab 5990 (Page-1/1)  
Ref:

Dated: 23-02-2022

Dated: 03-03-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.663	4	0.498	0.20	0.195	6.73	8.21	74190	76090	90490	92810	1.20	8.0	15.0	
2	0.666	4	0.500	0.20	0.196	7.03	8.97	77560	79150	98920	100940	1.20	8.0	15.0	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Ishtiaq Ahmad

Test Performed By: Dr. /Engr. Asad Ali Gillani

RE Nespak Multan.(Disposal Sewerage Line Ansari Chowk District Multan ADP No.6451)

Client Reference: 40247/01/IA/01/08

SOM Lab 5991 (Page-1/1)  
Ref: 1/1)

Dated: 07-02-2022

Dated: 03-03-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.606	4	0.476	0.20	0.178	5.88	7.61	64860	72880	83970	94350	1.10	8.0	13.8	
2	0.591	4	0.471	0.20	0.174	6.03	7.80	66550	76490	85990	98840	1.10	8.0	13.8	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Rana Muhammad Naeem

Test Performed By: Dr. /Engr. Asad Ali Gillani

Alliance Engrs & Contractors (Commercial Bldg At P #184 Block-S Quaid-E-Azam Industrial Estate, Lhr)

Client Reference: Nil

SOM Lab 5992 (Page-1/1)  
Ref: 1/1

Dated: 02-03-2022

Dated: 03-03-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.646	8	0.995	0.79	0.778	28.29	34.83	78970	80190	97240	98740	1.50	8.0	18.8	
2	1.513	6	0.753	0.44	0.445	16.43	20.54	82370	81440	102960	101800	1.40	8.0	17.5	
3	0.673	4	0.502	0.20	0.198	7.72	9.25	85100	85950	101960	102990	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)



**Test Performed by:** Dr. S. Asad Ali Gillani

Dy. Director Roads-II,  
Capital development Authority (Roads Division-II)  
Islamabad.

Project: Construction Of Khayaban-E-Margalla From G.T-Road To Sector D-12 – Balance work  
(Pkg-I) Islamabad.

**Reference No.:** CDA/DD(RD-II)/2022/93

Dated: 02-03-2022

**SOM Lab Ref:** CED/SOM/5988(Page-1/1)

Dated: 03-03-2022

**Test:** Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

**Sample Type:** Elastomeric Bearing Pad (Arasan Kaucuk Turkey)

**TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tensile Strength (Mpa)	Tensile Strength (kg/cm <sup>2</sup> )	Elongation at Break(%)
1	9.0 x 3.1	0.48	17.20	175.38	480.0
2	10.0 x 3.3	0.57	17.27	176.13	500.0

**TEAR STRENGTH (AS PER ASTM-D-624)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	18.0 x 3.5	0.40	114.28
2	18.0 x 3.5	0.40	114.28

**- COMPRESSION SET TEST (AS PER ASTM-D-395)**

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.00	2.94	2.0

**- HARDNESS TEST (AS PER ASTM-D-2240)**

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	62.00

