



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Engineer's Representative/RE
 NESPAK
 Construction of New Academic Block at GIK Institute, TOPI, KPK

Reference # CED/TFL **33640** (Dr. Ali Ahmed)
 Reference of the request letter # 3524/31/KMB/0725/330

Dated: 29-07-2019
 Dated: 25-07-2019

Tension Test Report (Page – 1/2)

Date of Test 01-08-2019
 Gauge length 2 inches
 Description Aluminium Section Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	----	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	AA	26.50x1.80	47.70	10.02	12.00	210.06	251.57	0.25	12.50	
2		26.20x1.80	47.16	10.85	12.00	230.07	254.45	0.20	10.00	
3	BB	26.40x1.70	44.88	10.41	12.00	231.95	267.38	0.20	10.00	
4		26.30x1.70	44.71	10.86	12.00	242.90	268.40	0.15	7.50	
5	CC	26.40x1.85	48.84	7.13	8.5	145.99	174.04	0.25	12.50	
6		26.40x1.85	48.84	7.67	8.5	157.04	174.04	0.25	12.50	
7	DD	26.40x1.90	50.16	10.63	11.5	211.92	229.27	0.15	7.50	
8		26.40x1.90	50.16	10.23	11.5	203.95	229.27	0.20	10.00	
Only Eight Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Engineer's Representative/RE
NESPAK
Construction of New Academic Block at GIK Institute, TOPI, KPK

Reference # CED/TFL **33640** (Dr. Ali Ahmed)
Reference of the request letter # 3524/31/KMB/0725/330

Dated: 29-07-2019

Dated: 25-07-2019

Thickness Test Report (Page – 2/2)

Date of Test 01-08-2019
Gauge length -----
Description Aluminium Section Thickness Test

Sr. No.	Designation	Thickness	Remark
	-----	(mm)	
1	AA	1.80	
2	BB	1.70	
3	CC	1.85	
4	DD	1.90	
-	-	-	
-	-	-	
-	-	-	
Only Four Sample for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub-Divisional Officer
 GC University
 Faisalabad
 Construction of External Development (Sewerage Sump External Sewerage & Power Cable etc)
 of Academic Block # 6 at New Campus Government College University Faisalabad

Reference # CED/TFL **33654** (Dr. Ali Ahmed)
 Reference of the request letter # GCUF/EC/1133

Dated: 30-07-2019

Dated: 22-07-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.386	3/8	0.380	0.11	0.113	3300	4500	66200	64170	90200	87600	1.30	16.3	
2	0.380	3/8	0.377	0.11	0.112	3100	4300	62200	61190	86200	84900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 NESPAK Pkg-01
 Dualization & Improvement of Indus Highway Road Project Package - 01 (Sarai Gambila – Karak)
 (Mujahid Stee)
 Reference # CED/TFL **33655** (Dr. Ali Ahmed)
 Reference of the request letter # 36267/103/TH/01/61

Dated: 31-07-2019
 Dated: 30-07-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	5.109	11	1.383	1.56	1.502	44000	66600	62200	64580	94100	97800	1.40	17.5	
2	5.155	11	1.389	1.56	1.515	31400	47200	44400	45680	66700	68700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

Witness test Report

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 SQN LDR
 GE (AIR) Rafiqui
 (Rehabilitation of Stores at PAF Base Rafiqui – CA No. CMES-SGD-133/2019)(M/s Al-Aadiat
 Fiber Glass)

Reference # CED/TFL **33658** (Dr. Ali Ahmed)
 Reference of the request letter # 6279/14/E-6

Dated: 31-07-2019
 Dated: 10-06-2019

Tension Test Report (Page -1/5)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Grade
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.385	3/8	0.379	0.11	0.113	3200	4700	64200	62390	94200	91700	1.10	13.8	40
2	0.374	3/8	0.374	0.11	0.110	4100	5200	82200	82180	104200	104300	1.00	12.5	60
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 SQN LDR
 GE (AIR) Rafiqui
 (Replacement of Roof Slab Markazi Masjid at PAF Base Rafiqui – CA No. CEAF-CZ-54/2019)(M/s Naji Traders & Builders)

Reference # CED/TFL **33658** (Dr. Ali Ahmed)
 Reference of the request letter # 6223/38/E-6

Dated: 31-07-2019
 Dated: 10-06-2019

Tension Test Report (Page -2/5)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3/8	0.375	0.11	0.110	3300	5000	66200	65960	100200	100000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 SQN LDR
 GE (AIR) Rafiqui
 (Rehabilitation/Uplifting of Officers Mess at PAF Base Rafiqui – CA No. CEAf-CZ-53/2019)
 (M/s Kasco Builders)

Reference # CED/TFL **33658** (Dr. Ali Ahmed)
 Reference of the request letter # 6177/18/E-6

Dated: 31-07-2019
 Dated: 10-06-2019

Tension Test Report (Page -3/5)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3/8	0.372	0.11	0.109	2800	4200	56200	56840	84200	85300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 SQN LDR
 GE (AIR) Rafiqui
 (Rehabilitation of Airmen Quarters Block No. 93 in Domestic Camp at PAF Base Rafiqui – CA
 No. CEA-F-CZ-80/2019)(M/s Ghulam Farid Kuplana Construction Co)

Reference # CED/TFL **33658** (Dr. Ali Ahmed)
 Reference of the request letter # 6261/22/E-6

Dated: 31-07-2019
 Dated: 10-06-2019

Tension Test Report (Page -4/5)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.383	3/8	0.378	0.11	0.113	3000	4300	60200	58770	86200	84300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 SQN LDR
 GE (AIR) Rafiqui
 (Provision of External Services for Diagnostic Centre/MRI Building in PAF Hospital at PAF
 Base Rafiqui – CA No. CEAFF-CZ-86/2019)(M/s Haroon Habib Construction Co)

Reference # CED/TFL **33658** (Dr. Ali Ahmed)
 Reference of the request letter # 6037/21/E-6

Dated: 31-07-2019
 Dated: 02-06-2019

Tension Test Report (Page -5/5)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Grade
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.373	3/8	0.374	0.11	0.110	4200	5000	84200	84390	100200	100500	1.10	13.8	40
2	0.369	3/8	0.372	0.11	0.108	4200	4900	84200	85400	98200	99700	1.20	15.0	60
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

o,
 Assistant Engineer-III
 Pakistan Railways, Lahore
 Improvement to the existing facilities at washing line Lahore

Reference # CED/TFL **33659** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 31-07-2019
 Dated: 31-07-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.111	3900	5000	78200	77770	100200	99800	0.80	10.0	
2	0.374	3	0.374	0.11	0.110	3600	4900	72200	72230	98200	98400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Highway Sub Division
 Mianwali
 (Rural Accessibility Programme (Naya Pakistan Manzilyen Asan) in District Mianwali)

Reference # CED/TFL **33663** (Dr. Ali Ahmed)
 Reference of the request letter # 344/SDO/Mwi

Dated: 31-07-2019
 Dated: 27-07-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	3	0.372	0.11	0.109	2700	4000	54100	54700	80200	81100	1.50	18.8	
2	0.374	3	0.374	0.11	0.110	2600	4000	52100	52190	80200	80300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Highway Sub Division
 Hafizabad
 (Rehabilitation/Wideining/Construction of (Rural) Roads Under Accessibility Programme (RAP)
 2018-19 in District Hafizabad)
 Reference # CED/TFL **33665** (Dr. Ali Ahmed)
 Reference of the request letter # 157/H

Dated: 31-07-2019
 Dated: 26-07-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3/8	0.374	0.11	0.110	3600	4700	72200	72120	94200	94200	1.30	16.3	
2	0.372	3/8	0.373	0.11	0.109	3500	4500	70200	70490	90200	90700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Buildings Sub Division C.M Sectt ;
 Lahore
 (Provision of Security Arrangement in Chief Minister's Office at 7-Club Road and 90-SQA,
 Lahore)
 Reference # CED/TFL **33666** (Dr. Ali Ahmed)
 Reference of the request letter # SDO/CMS/871

Dated: 31-07-2019
 Dated: 27-07-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.386	3/8	0.380	0.11	0.113	-----	11400	-----	-----	228500	221600	0.30	3.8	
2	0.389	3/8	0.382	0.11	0.114	-----	12800	-----	-----	256500	246800	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Failed														
3/8" Dia Bar Bend Test Through 180° is Failed														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
 Production Manager
 Afco Steel Industries
 Lahore

Reference # CED/TFL **33667** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 01-08-2019
 Dated: 01-08-2019

Tension Test Report (Page -1/1)

Date of Test 01-08-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.403	10	9.86	0.12	0.118	4700	6300	86347	87490	115742	117300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples