

Khalid Bashir

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

Ittefaq Building Solution (Pvt),Lahore.( Sapphire Diamond Ferozwatan)

**Client Reference:** IBS/SD/ST05

**Dated:** 16-11-2021

**SOM Lab Ref:** CED/SOM/5312 (Page-1/1)

**Dated:** 17-11-2021

**Test:** Tensile Test & Bend Test

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

**Sample Type:** 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.970	25	25.38	491	506	242.50	312.70	494	480	637	618	35.0	200	17.5	
2	3.964	25	25.36	491	505	249.00	327.70	507	494	668	650	32.5	200	16.3	
3	2.162	20	18.73	314	275	143.50	187.50	457	522	597	681	30.0	200	15.0	
4	2.180	20	18.80	314	278	150.00	191.20	477	541	609	689	25.0	200	12.5	
5	0.997	12	12.72	113	127	67.20	87.70	594	530	775	691	27.5	200	13.8	
6	0.993	12	12.69	113	127	66.20	86.70	585	524	767	686	25.0	200	12.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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)

Wasif Manzoor  
Salman Developers Lahore.(Grand Square Mall)

Test Performed By: Dr. /Engr. Asad Ghalani

Client Reference: Nil

SOM Lab

Ref: 5310(Page-1/1)

Dated: 17-11-2021

Dated: 17-11-2021

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	2.649	8	0.995	0.79	0.778	24.74	34.27	69070	70140	95680	97150	1.30	8.0	16.3	
2	1.489	6	0.747	0.44	0.438	14.55	19.59	72910	73250	98210	98650	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	6.57	8.43	72510	74360	92960	95350	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)

Muneeb Shahzad Butt

**Test Performed By:** Dr. /Engr. Dr. Asad Ghalani

PM BPS (Pvt)Ltd (Construction Of Alpha Home Apartments (Block-C) at Beaconhouse Estate Lahore)

**Client Reference:** AHA:21

**SOM Lab**

**Ref:** 5309(Page-1/1)

**Dated:** 16-11-2021

**Dated:** 17-11-2021

**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	2.622	8	0.991	0.79	0.771	25.48	33.71	71150	72900	94110	96430	1.80	8.0	22.5	
2	2.682	8	1.002	0.79	0.788	25.91	32.95	72340	72530	91980	92210	1.70	8.0	21.3	
3	1.475	6	0.743	0.44	0.433	14.34	19.75	71890	73050	98970	100570	1.30	8.0	16.3	
4	1.472	6	0.743	0.44	0.433	13.99	18.88	70100	71240	94630	96160	1.30	8.0	16.3	
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**Witnessed By:** Zeeshan Elahi (Site Supervisor,REC)

**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	

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

Umair Ahsan  
 Khawajah Wollen Mills(Pvt) Gujranwala.

Test Performed By: Dr. /Engr. Asad Ghalani

Client Reference: Nil

SOM Lab

Ref: 5310(Page-1/1)

Dated: 17-11-2021

Dated: 17-11-2021

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	2.649	8	0.995	0.79	0.778	24.74	34.27	69070	70140	95680	97150	1.30	8.0	16.3	
2	1.489	6	0.747	0.44	0.438	14.55	19.59	72910	73250	98210	98650	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	6.57	8.43	72510	74360	92960	95350	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
# 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)

Building Research Station

Test Performed By: Dr. /Engr. Asad Ghalani

Assistant Director-I, Communication & Works Department, Govt. Of Punjab, Lahore.

Client Reference: 154-R/3436

SOM Lab

Ref: 5311(Page-1/1)

Dated: 16-11-2021

Dated: 17-11-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AGHA ARCON)

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	2.659	8	0.997	0.79	0.781	29.84	38.25	83300	84260	106780	108010	1.10	8.0	13.8	
2	1.495	6	0.748	0.44	0.439	15.24	20.41	76390	76560	102290	102530	1.10	8.0	13.8	
3	0.661	4	0.497	0.20	0.194	6.44	9.40	71040	73240	103640	106850	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 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. Syed Asad Ali Gilani

Muhammad Qasim  
Project Manager  
Polymer Industries  
46-A, S.I.E # 2, Gujranwala-Pakistan

**Client Reference No.:** UET/21068

Dated: 22-10-2021

**SOM Lab Ref:** CED/SOM/5190 (P-1/1)

Dated: 25-10-2021

**Test Type:** Load Test

**Sample Type:** Fiber Glass Tube Profile ( 75 x 50 x 5 mm)

## Load Test:

S No	Sample Type	Sample Size		Ultimate Load ( kN)	Remarks
		Pipe Thickness (mm)	Pipe Size (mm x mm)		
1	<b>Fiber Glass Tube Profile</b>	5	75 x 50	18.0	Sample breaks at this load

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. Syed Asad Ali Gilani

Muhammad Qasim  
Project Manager  
Polymer Industries  
46-A, S.I.E # 2, Gujranwala-Pakistan

**Client Reference No.:** UET/21067

Dated: 22-10-2021

**SOM Lab Ref:** CED/SOM/5193 (P-1/1)

Dated: 25-10-2021

**Test Type:** Load Test

**Sample Type:** Fiber Glass profile for walk way ( 260mm x 33.5mm)

## Load Test:

S No	Sample Type	Sample Size		Ultimate Load ( kN)	Remarks
		Pipe Thickness (mm)	Pipe Size (mm x mm)		
1	<b>Fiber Glass profile</b>	6	260 x 33.5	20.50	Sample breaks at this load

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. Syed Asad Ali Gilani

Irfan Siddique  
Building Standards  
Lahore

**Client Reference No.:** GT/LTR/211116-118

Dated: 16-11-2021

**SOM Lab Ref:** CED/SOM/5301 (P-1/1)

Dated: 16-10-2021

**Test Type:** Tensile Test

**Sample Type:** Rubber Belt

**Tensile Test:**

S No	Sample Type	Sample Size (mm x mm)	Sample Thickness (mm)	Breaking Load (kN)	Tensile Strength (MPa)
1	<b>Rubber Belt</b>	26.4 x7.5	7.5	20.0	101.01

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