

Rana Waqar Ahmed  
General Manager Plant, Shangrila Food (Pvt) Ltd. Karachi

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

**Client Reference:** nil  
**SOM Lab Ref:** CED/SOM/3221(Page-1/1)  
**Test:** Tension Test & bend Test  
**Sample Type:** Deformed Bar

**Dated:** 06-11-2020  
**Dated:** 06-11-2020  
**Test Specification:** ASTM-A 615  
**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	3.963	25	25.36	491	505	269.50	353.20	549	534	720	700	25.0	200	12.5	
2	3.967	25	25.37	491	505	266.50	349.20	543	528	711	692	32.5	200	16.3	
3	2.251	20	19.11	314	287	188.20	216.70	599	657	690	756	25.0	200	12.5	
4	2.249	20	19.10	314	287	184.70	218.00	588	645	694	761	22.5	200	11.3	
5	1.002	12	12.75	113	128	61.50	79.70	544	482	705	625	30.0	200	15.0	
6	1.005	12	12.77	113	128	62.50	81.50	553	489	721	637	27.5	200	13.8	
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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)

Jamia Masjid Gulzair-e-Madina  
Thatha Naik, Tehsil Phaluia, Distt. M. B. Din

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: nil

SOM Lab

Ref: 3215(Page-2/2)

Dated: 05-11-2020

Dated: 05-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (NEW 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.358	6	0.713	0.44	0.399	10.70	17.91	53650	59170	89780	99000	1.20	8.0	15.0	
2	1.363	6	0.715	0.44	0.401	11.01	17.53	55190	60550	87880	96430	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two 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)

Jamia Masjid Gulzair-e-Madina  
Thatha Naik, Tehsil Phaluia, Distt. M. B. Din

Test Performed By: Dr. /Engr. Amna Rajput

Client Reference: nil

SOM Lab

Ref: 3215(Page-1/2)

Dated: 05-11-2020

Dated: 05-11-2020

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.476	8	0.963	0.79	0.728	0.00	23.60	0	0	65880	71490	0.20	8.0	2.5	
2	2.488	8	0.965	0.79	0.731	19.47	28.36	54360	58740	79170	85560	0.50	8.0	6.3	
3	1.401	6	0.724	0.44	0.412	11.23	16.33	56310	60140	81860	87420	0.40	8.0	5.0	
4	0.703	4	0.513	0.20	0.207	5.61	7.80	61830	59740	85990	83090	1.30	8.0	16.3	
5	0.614	4	0.479	0.20	0.180	4.71	6.60	51940	57710	72730	80810	1.30	8.0	16.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Five 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)