

Jawad Azeem
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Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil
SOM Lab Ref: CED/SOM/1372 (Page-1/1)

Dated: 05-09-2019
Dated: 11-09-2019

Test: Tension Test & Bend Test
Sample Type: M S Deformed Bar

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.886	21	25.11	314	495	217.70	305.20	693	440	971	617	45.0	200	22.5	
2	3.890	21	25.12	314	496	217.20	304.20	691	439	968	614	45.0	200	22.5	
3	2.220	19	18.98	284	283	136.70	180.00	482	484	635	637	32.5	200	16.3	
4	2.200	19	18.89	284	280	134.50	178.70	474	481	630	638	27.5	200	13.8	
5	0.984	12	12.64	113	125	72.50	88.00	641	579	778	702	27.5	200	13.8	
6	0.990	12	12.67	113	126	73.50	88.70	650	583	784	704	25.0	200	12.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

21mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
19mm	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