

Sohail Zafar
Resident Engineer, Fazaia Housing Scheme, Gujranwala

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: FHSG/6015/5/4/DEV

SOM Lab

Ref: 2476(Page-1/1)

Dated: 07-05-2020

Dated: 07-05-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.502	6	0.749	0.44	0.441	13.51	18.27	67700	67550	91560	91360	1.20	8.0	15.0	
2	1.500	6	0.749	0.44	0.441	13.53	18.25	67810	67650	91460	91250	1.10	8.0	13.8	
3	1.062	5	0.630	0.31	0.312	10.47	13.43	74480	74000	95510	94900	1.00	8.0	12.5	
4	1.039	5	0.623	0.31	0.305	10.60	13.56	75420	76660	96460	98040	1.00	8.0	12.5	
5	0.700	4	0.512	0.20	0.206	6.32	9.81	69700	67670	108140	104990	0.80	8.0	10.0	
6	0.695	4	0.510	0.20	0.204	6.52	10.37	71940	70530	114320	112080	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Test Performed by: Dr.Asad Ali Gillani

Engr. Nasir Ahmed Chishty
Chief Resident Engineer
Osmani & Co. (Pvt) Ltd
HQ PD Swat Motorway Project, FWO
Capt. Karanal Sher Khan Interchange M1
C/O TCS Office Risalpur Cantt.

Client Reference No.: 372/CRE/QAT/SMP/2020

Dated: 07-05-2020

SOM Lab Ref: CED/SOM/2490 (Page 1/1)

Dated: 13-05-2020

Test: Tensile Test, Tear Strength Test, Hardness Test & Comp. Set Test

Sample Type: Expansion Joint

-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 ²)	Elongation at Break(%)
1	6.5 x 3.2	0.70	33.65	343.13	540

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.2	3.1	3.125

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Pad	48.33