

Javed Iqbal  
 Manager, MM Tower, 28-A Block-K, Gulberg-II, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: Nil

SOM Lab

Ref: 2514(Page-1/1)

Dated: 28-05-2020

Dated: 28-05-2020

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.660	4	0.497	0.20	0.194	5.86	8.99	64640	66640	99150	102210	1.20	8.0	15.0	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Two Samples Received and Tested</b>

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.Asad Ali Gillani

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

Client Reference No.: 370/CRE/QAT/SMP/2020

Dated: 07-05-2020

SOM Lab Ref: CED/SOM/2491 (Page 1/1)

Dated: 13-05-2020

Test: Tensile Test, Elongation at Break, Comp. Set Test & Hardness Test

Sample Type: Elastomeric Bearing Pad

**-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 <sup>2</sup> )	Elongation at Break(%)
1	6.5 x 3.0	0.72	36.92	376.47	510

**- TEAR STRENGTH (AS PER ASTM-D-624)**

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 3.0	0.30	100

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.0	2.95	1.667

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Pad	61.66

