

Osama Hassan  
Resident Engineer, NESPAK, (Pvt) Ltd Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 4047/13/OH/03-MBCC/28

Dated: 12-11-2019

SOM Lab

Ref: 1755(Page-1/1)

Dated: 19-11-2019

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	2.607	8	0.988	0.79	0.766	28.03	36.44	78260	80710	101740	104930	1.10	8.0	13.8	
2	2.653	8	0.997	0.79	0.780	26.40	35.29	73710	74650	98520	99790	1.30	8.0	16.3	
3	1.474	6	0.743	0.44	0.433	14.07	20.13	70510	71650	100910	102540	1.10	8.0	13.8	
4	1.468	6	0.741	0.44	0.431	13.71	19.80	68730	70160	99230	101300	1.20	8.0	15.0	
5	0.661	4	0.497	0.20	0.194	6.34	8.74	69920	72080	96340	99310	1.20	8.0	15.0	
6	0.626	4	0.484	0.20	0.184	5.83	8.12	64300	69890	89590	97380	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine 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)

Muhammad Aslam  
 Manager C / R & M, Engineering Cell Multan, Allied Bank Limited.

**Test Performed By:**

Dr. /Engr.

S. Asad Ali  
Gillani

**Client Reference:** Nil

**Dated:** 18-11-2019

**Test:** Tension Test & Bend Test

**Gauge Length:** 8 inch

**Test Specification:**

**Sample Type:**

**SOM Lab**

**Ref:** 1758(Page-1/1)

**Dated:** 19-11-2019

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	2.624	8	0.991	0.79	0.771	26.55	33.64	74140	75960	93910	96230	1.40	8.0	17.5	
2	1.724	8	0.803	0.79	0.507	26.30	34.05	73420	114400	95050	148100	1.30	8.0	16.3	
3	1.660	6	0.788	0.44	0.488	16.64	21.76	83390	75190	109090	98360	1.20	8.0	15.0	
4	1.663	6	0.789	0.44	0.489	16.84	21.83	84410	75950	109450	98480	1.30	8.0	16.3	
5	0.594	4	0.472	0.20	0.175	5.78	7.14	63740	72840	78690	89930	1.20	8.0	15.0	
6	0.602	4	0.475	0.20	0.177	5.78	7.16	63740	72020	78910	89170	1.00	8.0	12.5	
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**BEND TEST:**

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**Test Performed By:** Dr. Syed. Asad Ali Gillani

Superintendent of Police  
Dolphin Squad, Lahore

**Client Reference:** 3385/HC/SP-DSL

Dated: 19-11-2019

**SOM Laboratory Reference:** CED/SOM/1757(Page-1/1)

Dated: 19-11-2019

**Test:** Hardness & Dimension Test

**Sample Type:** Disc Pads

- DISK PAD SET FRONT

Plate Thickness	Size		Asbstas		Avg. Hardness Plate	Avg. Hardness Asbstas
	Length	Width	Thickness	SH		
4.1	95	32.3	7.0	Copper Rubber Powder	HR - 55.33 -B	HR -37.0-B

- DISK PAD SET REAR

Plate Thickness	Size		Asbstas		Avg. Hardness Plate	Avg. Hardness Asbstas
	Length	Width	Thickness	SH		
4.1	80	33.2	7.0	Copper Rubber Powder	HR – 45.66 -B	HR -37.0-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. Syed. Asad Ali Gillani

Superintendent of Police  
Dolphin Squad, Lahore

**Client Reference:** 3385/HC/SP-DSL

Dated: 19-11-2019

**SOM Laboratory Reference:** CED/SOM/1757(Page-1/1)

Dated: 19-11-2019

**Test:** Hardness & Dimension Test

**Sample Type:** Disc Pads

- DISK PAD SET FRONT

Plate Thickness	Size		Asbstas		Avg. Hardness Plate	Avg. Hardness Asbstas
	Length	Width	Thickness	SH		
4.1	95	32.3	7.0	Copper Rubber Powder	HR - 55.33 -B	HR -37.0-B

- DISK PAD SET REAR

Plate Thickness	Size		Asbstas		Avg. Hardness Plate	Avg. Hardness Asbstas
	Length	Width	Thickness	SH		
4.1	80	33.2	7.0	Copper Rubber Powder	HR – 45.66 -B	HR -37.0-B

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

