

Farid Masood
GM Technical & Procurement Gharibwal Cement Ltd. Lahore

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

Client Reference: GCL/Admin./UET/Tests/2023

Dated : 06-02-2022

SOM Lab Ref: CED/SOM/1708(Page-1/1)

Dated : 06-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: MS Deformed Bar

Gauge Length: 200 m

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	m	%	
1	2.427	20	19.84	314	309	160.70	212.00	512	521	675	687	37.5	200	18.8	H001-04
2	2.500	20	20.14	314	318	171.50	219.50	546	539	699	690	32.5	200	16.3	H001-04
3	1.574	16	15.98	201	200	94.20	129.70	469	470	645	647	40.0	200	20.0	H001-04
4	1.584	16	16.03	201	202	100.00	133.50	497	496	664	662	37.5	200	18.8	H001-04
5	0.881	12	11.95	113	112	54.70	74.20	484	488	656	662	35.0	200	17.5	H001-04
6	0.881	12	11.96	113	112	55.00	76.50	486	490	676	682	32.5	200	16.3	H001-04
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Witnessed By: M.Ehtisham (AM Procurement)

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	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

Engr. Naveed Sadiq
RE Orbit Housing.Lahore.(The Springs Apartment Homes)

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

Client Reference: Nil

SOM Lab

Ref: 1703 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.593	8	0.985	0.79	0.762	23.29	34.66	65030	67420	96760	100310	1.20	8.00	15.00	
2	2.639	8	0.994	0.79	0.776	23.39	34.58	65310	66490	96530	98270	1.20	8.00	15.00	
3	1.525	6	0.755	0.44	0.448	13.99	18.73	70100	68850	93860	92190	1.50	8.00	18.88	
4	1.491	6	0.747	0.44	0.438	13.53	18.62	67810	68110	93350	93780	1.50	8.00	18.88	
5	0.661	4	0.497	0.20	0.194	6.73	8.97	74190	76490	98920	101980	1.30	8.00	16.33	
6	0.664	4	0.498	0.20	0.195	7.24	9.17	79810	81860	101170	103760	1.10	8.00	13.88	
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BEND TEST:

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

Engr. Naveed Sadiq
RE Orbit Housing.Lahore.(The Springs Apartment Homes)

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

Client Reference: Nil

SOM Lab

Ref: 1704 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.609	8	0.988	0.79	0.767	23.85	34.98	66590	68590	97670	100600	1.30	8.00	16.3	
2	2.628	8	0.991	0.79	0.772	23.45	34.73	65460	66980	96960	99220	1.20	8.00	15.0	
3	1.541	6	0.759	0.44	0.453	13.73	18.73	68830	66850	93860	91170	1.50	8.00	18.8	
4	1.535	6	0.758	0.44	0.451	13.78	18.62	69080	67400	93350	91080	1.50	8.00	18.8	
5	0.668	4	0.500	0.20	0.196	6.75	8.99	74420	75940	99150	101170	1.20	8.00	15.0	
6	0.666	4	0.500	0.20	0.196	7.29	9.23	80370	82010	101730	103810	1.30	8.00	16.3	
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BEND TEST:

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

Engr. Major Zia-Ul-Islam ®

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

PD GCC,Overseas Const.Co, Lahore.(Project Gulberg City Cerntr, Lahore)

Client Reference: OCC/Steel/31

SOM Lab

Ref: 1707 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Batala 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.59 1	8	0.98 4	0.7 9	0.76 1	23.82	35.58	66510	69040	99320	10310 0	1.3 0	8. 0	16. 3	
2	0.65 7	4	0.49 6	0.2 0	0.19 3	6.65	8.72	73290	75950	96110	99600	1.2 0	8. 0	15. 0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 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

Engr. Farid Ullah Shah

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

RE Acrow Consultant Pvt Ltd.Lahore.(Const Of Appartment Building at 45-B-1 Gulberg III Lhr)

Client Reference: Acrow/45-B/...05

SOM Lab

Ref: 1709 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type: Bar

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	2.643	8	0.995	0.79	0.777	23.52	37.87	65650	66750	105720	107490	1.00	8.00	12.5	
2	2.624	8	0.991	0.79	0.771	23.85	38.12	66590	68230	106430	109060	0.80	8.00	10.0	
3	1.417	6	0.728	0.44	0.416	12.13	18.93	60810	64310	94880	100360	1.20	8.00	15.0	
4	1.414	6	0.728	0.44	0.416	12.13	18.83	60810	64310	94370	99820	1.00	8.00	12.5	
5	0.680	4	0.505	0.20	0.200	6.12	8.58	67450	67450	94650	94650	0.90	8.00	11.3	
6	0.688	4	0.507	0.20	0.202	6.22	8.77	68570	67890	96670	95720	1.50	8.00	18.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Sajid Hussain Sadiq

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

SE Sitara Heights.(Project "3 Jays Tower" Firdous Market Gulberg 3 Lahore)

Client Reference: SHPL/3Jays/LHR/17

SOM Lab

Ref: 1710 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.674	8	1.000	0.79	0.786	26.40	35.80	73710	74080	99950	100450	1.50	8.00	18.8	
2	2.673	8	1.000	0.79	0.786	26.37	35.80	73620	74000	99950	100450	1.30	8.00	16.3	
3	1.506	6	0.751	0.44	0.443	13.88	20.15	69590	69120	101020	100330	1.10	8.00	13.8	
4	1.495	6	0.748	0.44	0.439	13.78	19.95	69080	69240	99990	100220	1.20	8.00	15.0	
5	0.664	4	0.498	0.20	0.195	7.34	9.19	80940	83010	101390	103990	1.10	8.00	13.8	
6	0.665	4	0.498	0.20	0.195	7.80	9.86	85990	88200	108700	111490	1.00	8.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Sajid Hussain Sadiq

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

SE Sitara Heights.(Project "Sitara Serena Tower 62D,Gulberg 3 Lahore)

Client Reference: SHPL/Sitara Serena Tower/LHR/16

SOM Lab

Ref: 1711 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.651	8	0.996	0.79	0.779	22.48	31.50	62750	63640	87940	89180	1.60	8.00	20.00	
2	2.646	8	0.995	0.79	0.778	22.83	31.57	63750	64730	88140	89500	1.50	8.00	18.88	
3	1.458	6	0.738	0.44	0.428	13.71	20.25	68730	70650	101530	104370	1.30	8.00	16.33	
4	1.450	6	0.736	0.44	0.426	13.61	19.22	68210	70460	96320	99480	1.40	8.00	17.55	
5	0.671	4	0.501	0.20	0.197	5.66	7.95	62390	63340	87680	89020	1.30	8.00	16.33	
6	0.666	4	0.500	0.20	0.196	5.47	7.80	60370	61600	85990	87750	1.10	8.00	13.88	
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BEND TEST:

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

Khalid Bashir
 Ittefaq Building Solution (Pvt)Ltd.(Atif Plaza Lawrance Road Lahore)

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

Client Reference: IBS/AP/ST002

SOM Lab

Ref: 1712 (Page-1/1)

Dated: 06-02-2023

Dated: 06-02-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.614	8	0.989	0.79	0.768	23.36	32.84	65230	67100	91690	94320	1.50	8.0	18.8	
2	2.608	8	0.988	0.79	0.766	23.36	32.72	65230	67270	91350	94210	1.40	8.0	17.5	
3	1.497	6	0.748	0.44	0.440	13.86	19.62	69490	69490	98360	98360	1.30	8.0	16.3	
4	1.496	6	0.748	0.44	0.440	14.07	19.44	70510	70510	97440	97440	1.30	8.0	16.3	
5	0.673	4	0.502	0.20	0.198	6.93	9.48	76440	77210	104540	105600	1.10	8.0	13.8	
6	0.669	4	0.501	0.20	0.197	6.95	9.49	76660	77830	104650	106250	1.10	8.0	13.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Qasiser Nadeem,A/XEN

GE(Air) Rafiqui(Rehb/Uplift/Renov Of Existing Engg Wing Setup For "I" Level Facility Of JF17 Aircraft)

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

Client Reference: 6576/57/E-6

Dated: 31-01-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 1713 (Page-1/2)

Dated: 06-02-2023

Test Specification: ASTM-A-615

Deformed

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	2.695	8	1.004	0.79	0.792	24.18	37.99	67500	67330	106060	105800	1.60	8.00	20.00	
2	2.696	8	1.004	0.79	0.792	23.31	37.99	65090	64920	106060	105800	1.50	8.00	18.88	
3	1.504	6	0.750	0.44	0.442	14.12	22.32	70770	70450	111900	111390	1.30	8.00	16.33	
4	1.497	6	0.748	0.44	0.440	14.17	22.38	71020	71020	112150	112150	1.20	8.00	15.00	
5	1.035	5	0.622	0.30	0.304	9.48	15.11	67450	68780	107480	109600	1.20	8.00	15.00	
6	1.020	5	0.618	0.30	0.300	9.58	14.95	68170	70450	106390	109940	1.10	8.00	13.88	
7	0.669	4	0.501	0.19	0.197	6.85	10.24	75540	76690	112970	114690	1.30	8.00	16.33	
8	0.673	4	0.502	0.19	0.198	6.85	10.27	75540	76300	113200	114340	1.40	8.00	17.50	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 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

Qasiser Nadeem,A/XEN

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

GE(Air) Rafiqui(Rehb Of Aircraft Pens in Bravo Area at PAF Base Rafiqui)

Client Reference: 6578/30/E-6

SOM Lab

Ref: 1713 (Page-2/2)

Dated: 04-01-2023

Dated: 06-02-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.666	4	0.500	0.20	0.196	6.12	8.36	67450	68820	92180	94060	1.20	8.00	15.00	
2	0.672	4	0.501	0.20	0.197	5.58	8.18	61490	62430	90150	91530	1.30	8.00	16.3	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr Jaffar Hussain Randhawa

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

RE ECSP BGNU NNS.(Const Of Baba Guru Nanak University, Nankana Sahib)

Client Reference: ECSP/BGNU/24

SOM Lab

Ref: 1714 (Page-2/2)

Dated: 03-02-2023

Dated: 06-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (SJ

Gauge Length: 8 inch

Sample Type:

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.694	8	1.004	0.79	0.792	25.76	33.76	71920	71730	94250	94020	1.70	8.0	21.3	
2	2.653	8	0.997	0.79	0.780	25.86	34.07	72200	73130	95110	96330	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr Jaffar Hussain Randhawa

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

RE ECSP BGNU NNS.(Const Of Baba Guru Nanak University, Nankana Sahib)

Client Reference: ECSP/BGNU/21

SOM Lab

Ref: 1714 (Page-1/2)

Dated: 03-02-2023

Dated: 06-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Deformed Bar (Kamran

Gauge Length: 8 inch

Sample Type:

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.635	8	0.993	0.79	0.774	21.99	32.67	61390	62660	91210	93090	1.40	8.0	17.5	
2	2.626	8	0.991	0.79	0.772	22.04	32.79	61530	62960	91550	93690	1.50	8.0	18.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Zaki

Chief Engineer/CRE Nespak,

(Construction of Road From Bhawalpur (N-5) to Jhangra Sharqi Interchange (KLM) District Bhawalpur
(Length = 42.00KM)

Reference No.: 4372-B/MZ/01/1170

Dated: 05-12-2022

SOM Lab Ref: CED/SOM/1705(Page-1/1)

Dated: 06-02-2023

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

Sample Type: Elastomeric Bearing Pad (Rainbow)

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	7.9 x 2.1	0.34	20.49	208.98	540.0
2	8.0 x 2.1	0.32	19.04	194.22	550.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.0 x 2.5	0.45	180.0
2	12.0 x 2.5	0.40	160.0

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.10	2.94	5.16

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

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	63.3

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Zaki

Chief Engineer/CRE Nespak,

(Dualization of Road From Karam Dad Qureshi to Qasba Gujrat Length 12KM in District Muzaffargarh)

Reference No.: 4372-C/MZ/01/1169

Dated: 05-12-2022

SOM Lab Ref: CED/SOM/1706(Page-1/1)

Dated: 06-02-2023

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

Sample Type: Elastomeric Bearing Pad (Rainbow)

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	7.9 x 2.1	0.32	19.28	196.59	500.0
2	8.2 x 2.0	0.35	21.34	217.61	540.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.0 x 2.5	0.38	152.0
2	12.1 x 2.5	0.40	160.0

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	3.15	2.97	5.71

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

S. No	Sample Type	Hardness (Shore A)
1	Elastomeric Bearing Pad	62.66

