

Test Performed by: Dr. S. Asad Ali Gillani

Farid Ahmed Qureshi
Chief Executive
National Technocommercial Services (Pvt) Ltd.
Lahore

Client Reference No.: NTS/S-RubberTest/2024

Dated: 16/02/2024

SOM Lab Ref: CED/SOM/3677(Page-1/1)

Dated: 19-02-2024

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

Sample Type: Silicon Rubber (Ring)

TENSILE STRENGTH AND ELONGATION TEST.

S. No	Sample Diameter (mm)	Ultimate Load (kN)	Tensile Strength (N/mm ²)	Elongation at Break(%)
1	7.0	0.27	7.016	370.0

TEAR STRENGTH

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	6.7x 4.8	0.17	35.41

- COMPRESSION SET TEST

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	6.7	6.65	0.74

- HARDNESS TEST

S. No	Sample Type	Hardness _{avg} (Shore A)
1	Silicon Rubber (Ring)	58.3

Ar Saad Malik
Project Architect Inn.(Const of MAW Industrial Site Sialkot)

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

Client Reference: Nil
SOM Lab Ref: CED/SOM/3678(Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Deformed Bar

Dated: 19-02-2024
Dated: 19-02-2024
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	2.202	20	18.88	314	280	145.70	191.70	464	521	610	685	32.5	200	16.3	
2	2.210	20	18.93	314	282	141.50	189.20	450	503	602	673	27.5	200	13.8	
3	0.993	12	12.69	113	127	55.00	85.20	486	435	753	674	25.0	200	12.5	
4	0.995	12	12.70	113	127	54.70	85.00	484	432	752	671	25.0	200	12.5	
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BEND TEST:

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

MMP (Pvt.) Ltd
 ARE PCP 16 City of Project Pkg # I Jhelum.

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

Client Reference: ARE/JHE-AP/MC-11

SOM Lab

Ref: 3675 (Page-1/1)

Dated: 18-02-2024

Dated: 19-02-2024

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	0.654	4	0.494	0.20	0.192	6.37	8.92	70260	73190	98360	102460	1.30	8.0	16.3	
2	0.666	4	0.500	0.20	0.196	6.27	8.87	69130	70540	97800	99790	1.10	8.0	13.8	
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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

M.Arslan Khaleel
Amanah Noor Residence Model Town, Lahore.

Test Performed By: Dr. /Engr. Bilal Khokhar

Client Reference: Nil

SOM Lab

Ref: 3674 (Page-1/1)

Dated: 19-02-2024

Dated: 19-02-2024

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	0.662	4	0.498	0.20	0.195	6.73	8.82	74190	76090	97230	99730	1.00	8.0	12.5	
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BEND TEST:

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

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

Nabeel Ashraf

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

AE Evacuee Trust Property Board GOP.(Reconst. Of B/Wall at Sikh And Hindu Shamshan Ghat,Lhr)

Client Reference: 1143

SOM Lab

Ref: 3676 (Page-1/1)

Dated: 19-02-2024

Dated: 19-02-2024

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	0.669	4	0.501	0.20	0.197	4.99	7.36	55080	55920	81160	82400	1.10	8.0	13.8	
2	0.662	4	0.498	0.20	0.195	4.94	7.14	54520	55920	78690	80710	1.00	8.0	12.5	
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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