

**Test Performed by:** Dr. S. Asad Ali Gillani

Syed Liaqat Badshah  
Assistant Resident Engineer (A.C.E)  
Construction Of Peshawar Bara Bridge Project  
Khyber Agency

**Client Reference No.:** Bara Bridge/ACE/ARE-2/19/-32

Dated: 25-11-2019

**SOM Lab Ref:** CED/SOM/1802(Page-1/1)

Dated: 29-11-2019

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

**Sample Type:** Elastomeric Bearing Pad. (Source: Amjad Engineering Services))

**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)	Elongation at Break(%)
1	6.5 x 2.7	0.72	42.09	429.17	460

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

S. No	Sample Size (mm)	Ultimate Load (kN)	Tear Strength (N/mm)
1	12.5 x 2.2.7	0.32	118.3

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	2.80	2.75	1.785

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Rubber Pad	61.83

**Test Performed by:** Dr. S. Asad Ali Gillani

Afghan Sadaqat Construction & Road Making Company /

Bakhtar Afghan Construction Company Joint venture

(ASSC-BACCarat - JV)

Project: Rehabilitation of Lower Kokcha Irrigation – Zone 1: Sharawan Canal (SHRC),

LKIP / SHRC

Contract Identification Number : IFB # NPA / MEW / 96 W- 1924 ICB

Vehicle Bridge 10M, Province: KUNDUZ, District: IMAM SAHIB

Ministry of Energy And Water, Islamic Republic of Afghanistan

**Client Reference No.:** nil

Dated: 25-11-2019

**SOM Lab Ref:** CED/SOM/1803(Page-1/3)

Dated: 29-11-2019

**Test:** Tensile, Elongation at Break, Hardness Test & Comprssion Set Test

**Sample Type:** Bearing Pad (Size: 250 x 350 x 63.5mm)

**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	6.6 x 2.65	0.70	40.02	408.11	510

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	2.65	2.62	1.132

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Rubber Pad	60.83

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Project: Rehabilitation of Lower Kokcha Irrigation – Zone 1: Sharawan Canal (SHRC),

LKIP / SHRC

Contract Identification Number : IFB # NPA / MEW / 96 W- 1924 ICB

Vehicle Bridge 7 M, Province: KUNDUZ, District: IMAM SAHIB

Ministry of Energy And Water, Islamic Republic of Afghanistan

**Client Reference No.:** nil

Dated: 25-11-2019

**SOM Lab Ref:** CED/SOM/1803(Page-2/3)

Dated: 29-11-2019

**Test:** Tensile, Elongation at Break, Hardness Test & Comprssion Set Test

**Sample Type:** Bearing Pad (Size: 250 x 350 x 63.5mm)

**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	6.6 x 2.70	0.47	25.43	259.34	470

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	2.70	2.65	1.851

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Rubber Pad	60.50

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Project: Rehabilitation of Lower Kokcha Irrigation – Zone 1: Sharawan Canal (SHRC).

LKIP / SHRC

Contract Identification Number : IFB # NPA / MEW / 96 W- 1924 ICB

Vehicle Bridge 13M, Province: KUNDUZ, District: IMAM SAHIB

Ministry of Energy And Water, Islamic Republic of Afghanistan

**Client Reference No.:** nil

Dated: 25-11-2019

**SOM Lab Ref:** CED/SOM/1803(Page-3/3)

Dated: 29-11-2019

**Test:** Tensile, Elongation at Break, Hardness Test & Comprssion Set Test

**Sample Type:** Bearing Pad (Size: 350 x 350 x 106mm)

**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	6.6 x 2.70	0.60	33.67	343.30	500

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

S. No.	Thickness of Sample (mm)	Final Thickness (mm)	Compression set (%)
1	2.70	2.65	1.851

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

S. No	Sample Type	Hardness (Shore A)
1	Bearing Rubber Pad	61.0

