

PAKISTAN AUTOMOBILE CORPORATION LIMITLED (A SUBSIDIARY COMPANY OF PIDC)
MINISTRY OF PRODUCTION GOVT, OF PAKISTAN



TEAR STRENGTH TEST REPORT

Report No

: AT & TC/TSTR /91/2014

Date

: September 01, 2014

Customer Name

: National Engineering Services Pakistan (Pvt) Limited

Customer's Reference.

: Ref: SA-281/MBP/MK/104/36

Date

: August 07, 2014

Project Name

: Rawalpindi-Islamabad Metro Bus Project

(Rawalpindi Package-I)

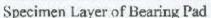
Part Name

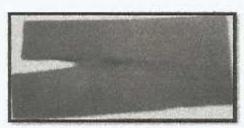
: Elastomeric Bearing Pad (From Lot)

Quantity

: 01 Sample Inter Buna Spain







Tested sample

TEST PARAMETERS:

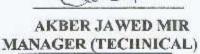
Test Standard

: ASTM D 624

TEST RESULTS:

Description	Observed Kgs/cm ²	Specified Kgs/cm ²	Remarks
Tear strength	46	13 (Min)	Within the Limit







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PAKISTAN AUTOMOBILE CORPORATION LIMITLED (A SUBSIDIARY COMPANY OF PIDC)
MINISTRY OF PRODUCTION GOVT, OF PAKISTAN



TENSILESTRENGTH/ELONGATION & HARDNESS TEST REPORT

Report No.

: AT & TC/TSTR/ELOG/HRD-CHG-R /8/2014

Date

: September 01, 2014

Customer Name

: National Engineering Services Pakistan (Pvt) Limited

Customer's Reference.

: Ref: SA-281/MBP/MK/104/36

Date

: August 07, 2014

Project Name

: Rawalpindi-Islamabad Metro Bus Project

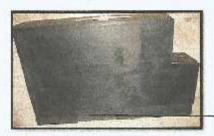
(Rawalpindi Package-I)

Part Name

: Elastomeric Bearing Pad (From Lot)

Quantity

: 01 Sample Inter Buna Spain



Bearing pad sample



Outer layer samples

Test Standard

: ASTM D412 (Tensile Strength & Elongation)

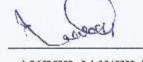
Test Standard

: ASTM D2240 (Hardness Shore A)

Original Properties

Description	Observed	Specified	Remarks
Hardness Shore A	62 to 63	60±5	Within the Limit
Tensile Strength Kgf/cm ²	162	160 Min.	Within the Limit
Elongation %	455	350 Min.	Within the Limit





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PAKISTAN AUTOMOBILE CORPORATION LIMTLED (A SUBSIDIARY COMPANY OF PIDC)
MINISTRY OF PRODUCTION GOVT, OF PAKISTAN



COMPRESSION SET TEST REPORT

Report No

: AT & TC/CST/110/2014

Date

: September 01, 2014

Customer Name

: National Engineering Services Pakistan (Pvt) Limited

Customer's Reference.

: Ref; SA-281/MBP/MK/104/36

Date

: August 07, 2014

Project Name

: Rawalpindi-Islamabad Metro Bus Project

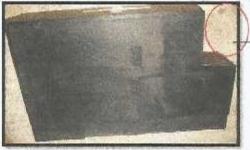
(Rawalpindi Package-1)

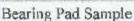
Part Name

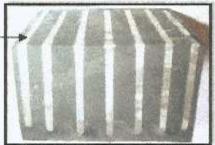
: Elastomeric Bearing Pad (From Lot)

Quantity

: 01 Sample Inter Buna Spain







Tested Sample (Inner layer of Bearing Pad)

TEST PARAMETERS:

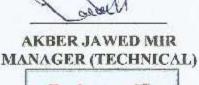
Test Standard : ASTM-D395

Temperature : 70 °C
Period of Test : 22 Hours.

TEST RESULTS:

Description	Observed	Specified	Remarks
Compression Set	18.30 %	25 % (Max)	Within limit







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PAKISTAN AUTOMOBILE CORPORATION LIMITLED (A SUBSIDIARY COMPANY OF PIDC)
MINISTRY OF PRODUCTION GOVT, OF PAKISTAN



LOW TEMPERATURE BRITTLENESS TEST REPORT

Report No.

: AT & TC/LTR/63/2014

Date

: September 01, 2014

Customer Name

: National Engineering Services Pakistan (Pvt) Limited

Customer's Reference.

: Ref: SA-281/MBP/MK/104/36

Date

: August 07, 2014

Project Name

: Rawalpindi-Islamabad Metro Bus Project

(Rawalpindi Package-I)

Part Name

: Elastomeric Bearing Pad (From Lot)

Quantity

: 01 Sample Inter Buna Spain







Tested Sample

TEST PARAMETERS:

Test Standard

: ASTM D 736

Temperature

: -40 °C

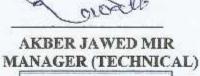
Period of Test

: 5 Hours.

TEST RESULT:

 After completion of the test (5 Hrs), No abnormalities such as cracks and break has been observed on the sample.







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PAKISTAN AUTOMOBILE CORPORATION LIMITLED (A SUBSIDIARY COMPANY OF PIDC)
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LOW TEMPERATURE STIFFNESS TEST REPORT

Report No

: AT & TC/LTR /88/2014

Date

: September 01, 2014

Customer Name

: National Engineering Services Pakistan (Pvt) Limited

Customer's Reference.

: Ref: SA-281/MBP/MK/104/36

Date

: August 07, 2014

Project Name

: Rawalpindi-Islamabad Metro Bus Project

(Rawalpindi Package-I)

Part Name

: Elastomeric Bearing Pad (From Lot)

Quantity

: 01 Sample Inter Buna Spain



Bearing Pad Sample TEST PARAMETERS:



Dumbbell

Test Standard

: ASTM D 797

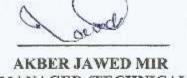
Temperature

: Young Modulus at 35 °C

TEST RESULTS:

Description	Observed	Specified	Remarks
Low Temperature Stiffness	265 Kg/cm ²	350 Kg/cm ²	Within the limit







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PAKISTAN AUTOMOBILE CORPORATION LIMTLED (A SUBSIDIARY COMPANY OF PIDC)
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OZONE AGING TEST REPORT

Report No : AT & TC/OZN /379/2014

Date : September 01, 2014

Customer Name : National Engineering Services Pakistan (Pvt) Limited

Customer's Reference. : Ref: SA-281/MBP/MK/104/36

Date : August 07, 2014

Project Name : Rawalpindi-Islamabad Metro Bus Project

(Rawalpindi Package-I)

Part Name : Elastomeric Bearing Pad (From Lot)

Quantity : 01 Sample Inter Buna Spain



TEST PARAMETERS:

Test Standard : ASTM-D1149

Temperature : 38°C ± 2 °C
Ozone Concentration : 100±5 PPHM

Elongation : 20%
Period of Test : 100 Hours.

TEST RESULTS:

 After completion of the test (100Hrs), No abnormalities such as discoloration and cracks have been observed.







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