

Bearing Pads (400x250x87)



PCSIR LABORATORIES COMPLEX, KARACHI
Shahrah-e-Dr.Salimuzzaman Siddiqui, Off University Road, Karachi - 75280

KL/ILO/FF/510/01(NA)
Revision #: 02
Issue #: 01
Issue Date: 19-11-2009

TEST REPORT*

22167

S. No: _____

Test Report #. ILD/ ATR-3043/2014

Date: 20-05-2014

1. Name and Address of Client: M/s. NATIONAL ENGINEERING SERVICES PAKISTAN Pvt. Ltd.
NESPAK House 1-C Block- N Model Town Extension, Lahore-54700.

Ref #: 3416/103/GSH/03/231 dated 24-04-2014 & 3416/103/GSH/03/245 dated 14-05-2014

Date of receipt: 25-04-2014

Project: CONSTRUCTION OF SIGNAL FREE JUNCTION AT QAINCHI, PACKAGE I, II & III

2. Description of the Sample: RUBBER SHEET
Item: -- Make: N.A.
Lab. Code No: ILD/ATR-3043/2014 Mark if any: N.A.
Condition found on receipt: Normal
3. Sample Plan / Procedure used: N.A. Date of sampling: N.A.
4. Environmental Conditions: Temp: N.A. Humidity: N.A.
(Where applicable)
5. Method Used: ASTM D-395(B), D-412, D-624, D-746, D-1149 & D-2240
6. Measurements & Results:

S. #	Tests Items	Unit	Original Parameters	Parameters after Aging at 100°C for 70 hours	Change
1.	Tensile Strength	kgF/cm ²	194	169	-13 %
2.	Elongation at Break	%	549	500	-10%
3.	Hardness (Shore-A)	Pts	60	65	± 05
4.	Tear Strength	kgF/cm	88	--	--
5.	Compression Set (at 67°C for 22 hours)	%	15	--	--
6.	Low Temperature Brittleness Test (at -40°C for 5 hours)	Cracking/ Breaking effect was not observed.			
7.	Ozone Resistance Test (40 ± 2°C, 100 hours, 20% strength at 100 ± 10 ppm)	Cracks were not observed.			

7. Statement of Compliance: N.A.
8. Opinion / Interpretation (where required):--

Tested By: (Syed Junaid Mehmood)

S.O.

Checked By:

(A.F.K. Ifrahim)

S.E.O.

Head of Centre/Division:

(Dr. Khaula Shirin)

PSO/HOC

20/5/14
fd
(Engr. Dr. Syed Naimat Ali Rizvi)
Director General

END OF REPORT

Beoring Pade (500x350x87)



PCSIR LABORATORIES COMPLEX, KARACHI
Shahrah-e-Dr.Salimuzzaman Siddiqui, Off University Road, Karachi - 75280

KL/ILO/FF/510/01(NA)
Revision #: 02
Issue #: 01
Issue Date: 19-11-2009

TEST REPORT*

S. No: 22163

Test Report #. ILD/ A.TR-3044/2014

Date: 20-05-2014

1. Name and Address of Client: M/s. NATIONAL ENGINEERING SERVICES PAKISTAN Pvt. Ltd.
NESPAK House 1-C Block- N Model Town Extension, Lahore-54700.

Ref. #: 3416/103/GSH/03/231 dated 24-04-2014 & 3416/103/GSH/03/245 dated 14-05-2014

Date of receipt: 25-04-2014

Project: CONSTRUCTION OF SIGNAL FREE JUNCTION AT QAINCHI PACKAGE I, II & III

2. Description of the Sample: RUBBER SHEET
Item: -- Make: N.A.
Lab. Code No. ILD/ATR-3044/2014 Mark if any: N.A.
Condition found on receipt: Normal
3. Sample Plan / Procedure used: N.A. Date of sampling: N.A.
4. Environmental Conditions: Temp: N.A. Humidity: N.A.
(Where applicable)
5. Method Used: ASTM D-395(B), D-412, D-624, D-746, D-1149 & D-2240
6. Measurements & Results:

S. #	Tests Items	Unit	Original Parameters	Parameters after Aging at 100°C for 70 hours	Change
1.	Tensile Strength	kgF/cm ²	193	156	-19.6 %
2.	Elongation at Break	%	558	481	-14%
3.	Hardness (Shore-A)	Pts	60	65	± 05
4.	Tear Strength	kgF/cm	85	--	--
5.	Compression Set (at 67°C for 22 hours)	%	18	--	--
6.	Low Temperature Brittleness Test (at -40°C for 5 hours)	Cracking/ Breaking effect was not observed.			
7.	Ozone Resistance Test (40 ± 2°C; 100 hours, 20% strength at 100 ± 10 pphm)	Cracks were not observed.			

7. Statement of Compliance: N.A.
8. Opinion / Interpretation (where required):--

Tested By: (Syed Junaid Mehmood)
S.O.

Checked By: (A.F.K. Ifrahim)
S.E.O.

Head of Centre/Division:

(Dr. Khaula Shirin)
PSO/HOC

(Engr. Dr. Syed Naimat Ali Rizvi)
Director General

END OF REPORT

Expansion Joint (REJ-70)



PCSIR LABORATORIES COMPLEX, KARACHI
 Shahrah-e-Dr.Salimuzzaman Siddiqui, Off University Road, Karachi - 75280

KL/ILO/FF/510/01(NA)
 Revision #: 02
 Issue #: 01
 Issue Date: 19-11-2009

TEST REPORT*

S. No. **22169**

Test Report #. ILD/ ATR-3045/2014

Date: 20-05-2014

1. Name and Address of Client: M/s. NATIONAL ENGINEERING SERVICES PAKISTAN PVT. LTD., NESPAK House 1-C, Block N, Model Town Extension Lahore- 54700

Ref. #: 3416/103/GSH/03/230 dated 24-04-2014 & 3416/103/GSH/03/246 dated 14-05-2014 Date of receipt: 25-04-2014
 Project: CONSTRUCTION OF SIGNAL FREE JUNCTION AT QAINCHI, PACKAGE I, II & III

2. Description of the Sample: RUBBER SHEET
 Item: -- Make: N.A.
 Lab. Code No. ILD/ATR-3045/2014 Mark if any: N.A.
 Condition found on receipt: Normal
 3. Sample Plan / Procedure used: N.A. Date of sampling: N.A.
 4. Environmental Conditions: Temp: N.A. Humidity: N.A.
 (Where applicable)
 5. Method Used: ASTM D-395, D-412, D-746, D-1149, D471 & D-2240
 6. Measurements & Results:

S. #	Tests Items	Unit	Original Parameters	Parameters after Aging at 100°C for 70 hours	Change
1.	Tensile Strength	kgF/cm ²	184	162	-12 %
2.	Elongation at Break	%	565	491	-13%
3.	Hardness (Shore-A)	Pts	60	65	± 05
4.	Compression Set (at 67°C for 22 hours)	%	09		
5.	Oil Deterioration (ASTM Oil No.3)	%	57 (Swelling)		
6.	Low Temperature Brittleness Test (at -40°C for 5 hours)	Cracking/ chipping effect was not observed.			
7.	Ozone Resistance Test (40 ± 2°C, 100 hours, 20% strength at 100± 10 ppm)	Cracks were not found.			

7. Statement of Compliance: N.A.

8. Opinion / Interpretation (where required):--

Tested By: (Syed Munaid Mehmood) S.O.

Checked By: (A.F.K. Ifrahim) S.E.O.

Head of Centre/Division:

(Dr. Khaula Shirin)
 PSO/HOC

20/5/14
 (Engr. Dr. Syed Naimat Ali Rizvi)
 Director General

END OF REPORT

Expansion Joint (EJN-160)



PCSIR LABORATORIES COMPLEX, KARACHI
 Shahrah-e-Dr.Salimuzzaman Siddiqui, Off University Road, Karachi - 75280
TEST REPORT*

KL/ILO/FF/510/01(NA)
 Revision #: 02
 Issue #: 01
 Issue Date: 19-11-2009

22236

S. No: _____

Test Report #. ILD/ ATR-3046/2014

Date: 20-05-2014

1. Name and Address of Client: M/s. NATIONAL ENGINEERING SERVICES PAKISTAN PVT. LTD., NESPAK House 1-C, Block N, Model Town Extension Lahore- 54700

Ref. #: 3416/103/GSH/03/230 dated 24-04-2014 & 3416/103/GSH/03/246 dated 14-05-2014

Date of receipt: 25-04-2014

Project: CONSTRUCTION OF SIGNAL FREE JUNCTION AT QAINCHI, PACKAGE I, II & III

2. Description of the Sample: RUBBER SHEET
 Item: -- Make: N.A.

Lab. Code No. ILD/ATR-3046/2014 Mark if any: N.A.

Condition found on receipt: Normal

3. Sample Plan / Procedure used: N.A. Date of sampling: N.A.

4. Environmental Conditions: Temp: N.A. Humidity: N.A.
 (Where applicable)

5. Method Used: ASTM D-395, D-412, D-746, D-1149, D471 & D-2240

6. Measurements & Results:

S. #	Tests Items	Unit	Original Parameters	Parameters after Aging at 100°C for 70 hours	Change
1.	Tensile Strength	kgF/cm ²	168	155	-8 %
2.	Elongation at Break	%	505	481	-5%
3.	Hardness (Shore-A)	Pts	60	65	± 05
4.	Compression Set (at 67°C for 22 hours)	%	07		
5.	Oil Deterioration (ASTM Oil No.3)	%	57 (Swelling)		
6.	Low Temperature Brittleness Test (at -40°C for 5 hours)	Cracking/ chipping effect was not observed.			
7.	Ozone Resistance Test (40 ± 2°C, 100 hours, 20% strength at 100± 10 pphm)	Cracks were not found.			

7. Statement of Compliance: N.A.

8. Opinion / Interpretation (where required):-

Tested By: (Syed Naimat Mehmood) S.O.

Checked By: (A.F.K. Ifrahim) S.E.O.

Head of Centre/Division:

(Dr. Khaula Shirin) PSO/HOC

(Engr. Dr. Syed Naimat Ali Rizvi) Director General

END OF REPORT