



DEPARTMENT OF CHEMICAL ENGINEERING

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Ref. No. Chem. Engg/13/03

Dated: 04-01-2017

Subject: Testing of Elastomeric Bearing Pad (Interbuna, Spain)
(Lahore Ring Road Project SL-1)


With reference to your letter No. ZI/RE-1/2016/058 dated 22-12-2016 on the subject cited above. The result of provided sample is as under:

Description / Test	Unit	Result	Standard Method (ASTM)
Compression set, 22 hrs. @ 67°C	%	21.6	D-395 (Method B)
Tear strength	Kg/cm ²	26.1	D-624 (Die C)
Ozone resistance, 20% strain, 100hrs @38°C ± 1°C (except 100 ±20 Parts per 100,000,000)	Observation	No deformation No cracking	ASTM D-1149 Rubber deteriorate Cracking in an ozone controlled (satisfactory)
Low temperature brittleness, 5 hrs. @ -40°C	Observation	No Brittle No shape change	D-736
Low temperature stiffness Young's Modulus @35°C	Kg/cm ²	292	D-797

Description	Unit	Before aging	After aging @100°C, 70 hrs.	Change	Standard ASTM
Hardness (Shore A)	Points	61	63	2	D-2240
Tensile strength	Kg/cm ²	199	180	-9.55%	D-412
Elongation at break	%	491	442	-9.98%	D-412


(Fayyaz A. Kirmani)
Supervisor(Lab)




(Prof. Dr. Ing. Naveed Ramzan)
Chairman

Note: This test report is based on sample provided by the client. As sampling has not been performed by the Chemical Engineering Department. The authenticity of the sample lies with the client. After completion of the report the sample will be reserved for one month until negotiated otherwise. Non-negotiable results cannot be challenged.