



# DEPARTMENT OF CHEMICAL ENGINEERING

University of Engineering and Technology, G.T. Road, Lahore, 54890 (PAKISTAN)

The Resident Engineer  
ACE-JV-AAA  
(SFP) Gujrat (N-5)

Ref. No. Chem. Engg. 16


Dated: 01-11-2016

Subject: Testing of Elastomeric Bearing Pad (Interbuna size 400x 500x 69mm)  
(Construction of 4-Lane Flyover at Shaheen Chowk on Gujrat Bypass (N-5))


With reference to your letter No. ACE/SFP/RE/No. 82 dated 22-10-2016 on the subject cited above. The result of provided sample is as under:

Description / Test	Unit	Result	Standard Method (ASTM)
Ozone resistance, 20% strain, 100hrs @38°C ± 1°C (except 100 ±20 Parts per 100,000,000)	---	No deformation No cracking	ASTM D-1149 Ruber deteriorator Cracking in an ozone controlled (satisfactory)
Low temperature brittleness, 5 hrs. @ -40°C	--	No Brittle No shape change	D-736
Low temperature stiffness Young's Modulus @35°C	Kg/cm <sup>2</sup>	287	D-797
Compression set, 22 hrs. @ 67°C	%	19.6	D-395 (Method B)
Tear strength	Kg/cm <sup>2</sup>	21.7	D-624 (Die C)

Description	Unit	Before aging	After aging @100°C, 70 hrs.	Change	Standard ASTM
Hardness (Shore A)	Points	61	64	3	D-2240
Tensile strength	Kg/cm <sup>2</sup>	199	180	-9.55%	D-412
Elongation at break	%	491	442	-9.98%	D-412

  
(Fayyaz Ahmad Khan)  
Supervisor



  
(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 can not be challenged.