

DEPARTMENT OF BUILDING AND ENERGY TECHNOLOGIES KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH P.O. BOX 24885 13109-Safat-Kuwait TEL: 24989101, 24989129, FAX: 24989099.

LABORATORY TESTING REPORT

TEST REPORT NO. 44/2012

Client

: Al-Oatami Insulation Material Factory.

Sample

: Expanded Polystyrene Board; White Colour

Date

: 20th June 2012.

Tests Performed: - Apparent Density

- Compressive Strength. - Thermal Conductivity.

The results in this report relate to the samples submitted by the client and to no other.

Approved by PM/CBM

Eng.Suad Al-Bahar No Liability

Lab Supervisor Eng. Ali M.Ali Checked and Verified by Mr. Amer Alarbeed

Mr. Tarun K. Mukherjee

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DEPARTMENT OF BUILDING AND ENERGY TECHNOLOGIES KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH

LABORATORY TESTING RESULTS

Client

: Al-Oatami Insulation Material Factory.

Test

: Apparent Density; ASTM D 1622

Sample

: Expanded Polystyrene Board; White Colour

: Standard procedure of ASTM D 1622 was applied Specimen dimensions

and weight were measured and then density was calculated.

Results

Specimen No.	Apparent Density (kg/m³)	
1	17.16	
2	17.86	
3	18.02	
4	16.92	
5	16.74	
Average	17.34	

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LABORATORY TESTING RESULTS

Client

: Al-Oatami Insulation Material Factory.

Test

: Compressive Strength; ASTM D 1621.

Sample

: Expanded Polystyrene Board; White Colour

Procedure

: The standard procedure of ASTM D 1621 was applied on 100 mm cube

specimens received from client.

Results

Specimen No.	Compressive Strength at 10% Deformation (kPa)	
1	102	
2	108	
3	110	
4	102	
5	101	
Average	105	

pproved by PM/CBM

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DEPARTMENT OF BUILDING AND ENERGY TECHNOLOGIES KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH

LABORATORY TESTING RESULTS

Client

: Al-Qatami Insulation Material Factory.

Test

: Thermal Conductivity; ASTM C 518.

Sample

: Expanded Polystyrene Board; White Colour.

Procedure

: Standard procedure of ASTM C 518 was applied at mean temperature of 40 °C (25 °C to 55°C). Specimen size was 300 mm x 300mm x 50 mm.

were used.

Results

Sample	Thermal Conductivity, K		
No.	(W/m °K)	(Btu in/hr ft ² °F)	
1	0.04166	0.28885	
2	0.04183	0.29000	
Average	0.04175	0.2893	

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Test conducted by Mr. Tarun K. Mukherjee

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MDT 8 Petrochemicals

Test Report

December 2017

Date: 13th December, 2017.

To: Ibrahim Mohammed Abbas Production Manager, Styroq

Prepared by: Dr. Milind Mhalgi MDTS-Rigid Support.

Subject: Test Report Styroq

SABIC laboratory tests have shown the following results for Polystyrene Foam samples submitted by Styrog

Test Description	Test Method	Unit	Average Result
Density	Normal Density	Kg/m ³	21
Thermal Conductivity (k-value)	DIN 52 612	W/m K	0.027
Compression Resistance at 10%	ASTM D695-10	kPa	131
Flexural Strength	ASTM D790-10	kPa	266
Flexural Modulus	ASTM D638-10	MPa	7.1
Water Vapor Permeability	DIN 53 429	g/m²/day	33.3
Oxygen Index	In-house	%	37.2

Please note that the above figures are only test results, can only be used as a guidance and cannot be used as a certificate. SABIC is not responsible for any consequences which were made based on the above test results.