

AL HOTY-STANGER**CLIENT: SAUDI RUBBER PRODUCT FACTORY.**

TWO No. : KHSPL2500337

Report No. : KHSPL2500337 R1-V1

Report Date : 23-11-2025 02:22 PM

Invoice No. :

Ref. No. :

AL Qassim, Saudi Arabia**Test Report**

Sample No. : KHSPL2500337
 Sample Description : RUBBER THERMAL INSULATION FOAM
 Company : SAUDI RUBBER PRODUCTS FACTORY
 Test Required : Water Absorption (ASTM C209-20)
 Testing Date : 23-11-2025
 Sample Delivered By : Client
 Project details : NA

TEST RESULT


Sample No		1	2	3
Sample dimensions (l×w×t)	cm	30.99×29.80×3.80	30.70×28.80×3.80	32.00×30.00×3.80
Volume	cm ³	132.90	150.90	162.30
Conditioned weight	g	136.20	154.90	166.30
Density	kg/m ³	44.55	44.91	44.49
Water absorption (% weight)	%	2.48	2.65	2.46
Water absorption (% by volume)	%	0.11	0.12	0.12
Average	%		0.12	

Test Parameters	Values
Room atmospheric conditions - Temperature	23.0 °C
Room atmospheric conditions - Humidity	46 %

Note :

AHSL certifies that the above test was carried out in accordance with specific standard.

Tested by: Muhammed Ahmed Khan**Verified by**


MOHAMMED USMAN GHANI
 Lab Supervisor
 Specialist Department
 For AL HOTY - STANGER LTD. CO.

**Approved by**


HASAN SHAWKAT AKLEKAR
 Department/Technical Manager
 Specialist Department

Test Method Variation: NONE

This witness report relates only to the sample tested and shall only be reproduced in full with the written approval of Al Hoty-Stanger testing laboratory

AL HOTY-STANGER LTD. CO.
INDEPENDENT LABORATORIES & MATERIALS TESTING

P.O. BOX 3072 Al-Khobar 31952 - Tel: (013) 889 1000 / 808 4317 / 808 7517 / 808 7518 / 808 5217 Fax: (013) 898-1466

Jubail P.O. 467 - Tel: (013) 341-6791 Fax : (013) 341-0642 - Hofuf P.O. Box 2752 - Tel: (013) 586-3210 Fax: (013) 587-1420 - Riyadh P.O. Box 7359 - Tel: (011) 478-4292 Fax: (011) 479-2058
 Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax: (012) 665-6742 - Yanbu - P.O. Box 30312 - Tel: (014) 322-5495 Fax: (014) 391-7471 - Jazan : Tel.: (017) 334-0518

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AL Qassim, Saudi Arabia**Test Report**

Sample No. : KHSPL2500337
 Sample Description : RUBBER THERMAL INSULATION FOAM
 Company : SAUDI RUBBER PRODUCTS FACTORY
 Test Required : Thermal Conductivity (ASTM C177-19)
 Testing Date : 17-11-2025
 Sample Delivered By : Client
 Project details : NA

TEST RESULT


Test Property	Test Temperature (°C)	Sample thickness (mm)	Thermal conductivity (W/m.K)
Reading 1	24.1	32.0	0.03618

Test Parameters	Values
Apparatus	TLP 500-GX1, one-plate measurement
Dimension of the metered section	506.09×510.10 mm
Thickness of specimen	32.0 mm
Temperature of cold surface	19.4 °C
Temperature of Hot surface	28.8 °C
Heating power	0.956 W
Specimen dimension	506.09×510.10×32.0 mm
Mass of the specimen	392.70 g
Density of the specimen	47.54 kg/m ³

Note :

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 Lab Supervisor
 Specialist Department
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**Approved by**


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Test Report

Sample No. : KHSPL2500337
 Sample Description : RUBBER THERMAL INSULATION FOAM
 Company : SAUDI RUBBER PRODUCTS FACTORY
 Test Required : Linear Shrinkage (ASTM C356-22)
 Testing Date : 23-11-2025
 Sample Delivered By : Client
 Project details : NA

TEST RESULT

Specimen No.	Initial Length, L ₁ (mm)	Final Length, L ₂ (mm)	Linear Change in Length (%)	Initial Width, W ₁ (mm)	Final Width, W ₂ (mm)	Linear Change in Width (%)	Initial Thickness, T ₁ (mm)	Final Thickness, T ₂ (mm)	Linear Change in Width (%)
1	156.20	149.88	4.05	64.33	60.55	5.88	39.10	36.59	6.42
2	154.80	150.00	3.10	68.88	64.40	6.50	37.31	35.29	5.41
3	152.98	147.00	3.91	66.61	62.63	5.98	38.20	35.98	5.81
4	160.50	154.20	3.93	65.13	61.98	4.84	37.10	34.51	6.98
Average Change in Length (%)			3.75	Average Change in width (%)		5.80	Average Change in Thickness (%)		6.16


Test Parameters	Values
Test duration	24 hours
Test temperature	121 °C

Note :

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