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**Sample ID :** Levha Elatomerik Kauçuk Köpüğü (19 mm)

	TEST	METHOD	RESULT
-	<b>Thermal Insulating Products For Building Applications. Determination Of Water Vapour Transmission Properties</b>	<b>EN 12086</b>	<b>SEE TABLES</b>

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.



Seal

Customer Representative

Merve Nur KIRVELİ

Laboratory Manager

Merve ÖZLÜ

Test results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (PR03-F01) conveyed to us from the Applicant. Test results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "\*" are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025, Analysis as indicated with "\*\*\*" are performed at the external laboratories using accredited test methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting N<sup>1</sup> to related pages. Tested and remaining samples will be kept in specified terms & conditions at test request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test results shown in this Report. Evaluation of the test results using Measurement Uncertainty values is the responsibility of the Applicant.

PR33-F01/08.10.2015/Rev:17.01.2017-R01

## EN 12086 : Thermal Insulating Products For Building Applications. Determination Of Water Vapour Transmission Properties

### Scope

This European Standard specifies the equipment and procedures for determining the water vapour transmission rate, water vapour permeance and water vapour permeability of test specimens in the steady state under different sets of specified test conditions. It is applicable to thermal insulating products.

It is intended to be used for homogeneous materials and for products which may contain integral skins or facings of different material.

### Principle

The test specimen is sealed to the open side of a test dish containing a desiccant or an aqueous saturated salt solution. The assembly is then placed in a test atmosphere whose temperature and humidity are controlled. Because of the difference between the partial water vapour pressures in the test assembly and in the test atmosphere water vapour flows through the test specimen. Periodic weighings of the assembly are conducted to determine the rate of water vapour transmission when the steady state is reached.

### Conditioning of test specimens

The test specimens shall be stored for at least 6 h at  $23 \pm 5$  °C. In case of dispute they shall be stored at  $23 \pm 2$  °C and  $50 \pm 5$  % relative humidity for the time specified in the relevant product standard with a minimum of 6 h.

### Test procedure

- Monitor the test chamber to ensure that test conditions are kept constant.
- Select a test assembly.
- Prepare test specimens.
- Place the desiccant or the aqueous saturated salt solution at the bottom of each dish in a layer of appropriate thickness, with a minimum of 15 mm. Use melted wax to seal the test specimen to the open side of the dish.
- The air space between the desiccant and the test specimen shall be  $15 \pm 5$  mm.
- Condition the test assemblies in the test chamber for a period between 1 h and 24 h. Weigh the test assembly to the nearest milligram or in the case of larger assemblies with an accuracy depending on the total weight and the required accuracy of the test results.
- Weigh the test assemblies at regular intervals of not less than 24 h. If the temperature of the room where the balance stands is within  $\pm 2$  °C of the nominal test temperature, then test assemblies can be weighed either inside or outside of the test chamber.

-If the measurement is made outside the chamber return the test assemblies as soon as possible. Care shall be taken that the duration outside the chamber does not affect the result.

-If the temperature of the balance is outside of the  $\pm 2$  °C range, then the test assemblies shall be weighed in the test atmosphere.

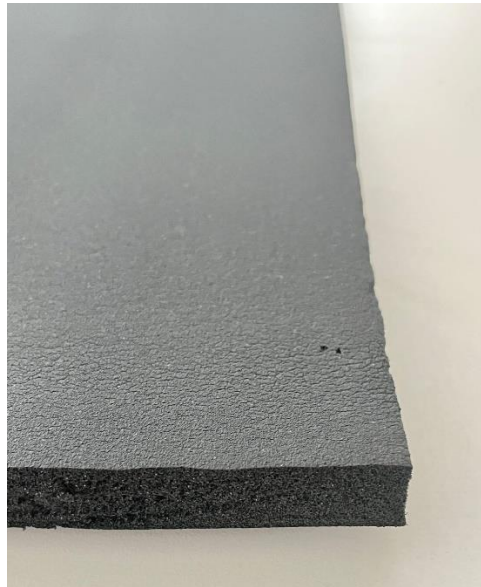
-Continue weighing until five successive determinations of change in mass per unit time for each test specimen are constant within  $\pm 5$  % of the mean value for this test specimen.

### Test Result

Specimen Sizes	Sample Size Used In The Test
1 m <sup>2</sup> -19 mm	15x15 mm

Test	Result
Water vapour diffusion resistance factor ( $\mu$ )	8000

### Sample Images



**\*\*\*End of Report\*\*\***