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Test Report VN720 170842.4

Application
Determination of the water vapour transmission properties according to EN 12086.

Test Material
"Highline Loop ECT350"

The test material used for testing was made anonymous for laboratory purposes.
A detailed sample list is included in the document.

Issuing
Original Issuing, 06.08.2020
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OETI - Institute for Ecology, Technology and Innovation GmbH

Ing. Hannes Vittek
Manager Flooring Technology & Interior Design

1 Application

Date of Order	Scope of Order
24.06.2020	Description Of Specimen - Textile Floor Coverings - EN 1307 Determination Of water vapour transmission properties - EN 12086

2 Samples

No.	Receipt	Sample Identification
1	29.06.2020	"Highline Loop ECT350"

(Unless otherwise stated samples are provided by the customer.)

3 Tests Performed / Results

3.1 Description of Specimen

Tested sample: "Highline Loop ECT350"

Manufacturing procedure:	tufted
Material of pile/wear layer:	100% Polyamide (according to the specification by the applicant)
Primary backing:	non woven
Structure of use surface:	loop pile
Colouring:	Multicolored unpatterned
Secondary backing:	textile backing (non-woven)
Dimensions:	tiles
Type of floor covering:	Pile carpet according to EN 1307

3.2 Determination of the water vapour transmission properties

Test conditions

According to: EN 12086

Conditioning: Set 23°C / 50 / 93 % relative air humidity

Specimen:5 pieces with 50 cm² permeation area

Test location: OFI 20013933 / 11517

Tested sample: "Highline Loop ECT350"

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	**Mean value**	**Standard deviation**
Thickness of individual specimen [mm]	6.5	6.7	6.6	6.7	6.3	**--**	**--**
Water vapor permeability [g/m².d]	40.0	55.0	46.7	78.0	70.0	**57.9**	**15.8**
Water vapour diffusion flow [kg/h]	8.33 x 10^{-6}	1.15 x 10^{-5}	9.73 x 10^{-6}	1.63 x 10^{-5}	1.46 x 10^{-5}	**1.21 x 10^{-5}**	**--**
Water vapour diffusion permeability coefficient [kg/m².h.Pa]	1.38 x 10^{-6}	1.90 x 10^{-6}	1.61 x 10^{-6}	2.70 x 10^{-6}	2.42 x 10^{-6}	**2.00 x 10^{-6}**	**--**
Water vapour conduct permeability coefficient [kg/m.h.Pa]	9.02 x 10^{-9}	1.27 x 10^{-9}	1.07 x 10^{-8}	1.81 x 10^{-8}	1.51x 10^{-8}	**1.31 x 10^{-8}**	**--**
Water vapour diffusion resistance factor [µ-value]	75	52	63	36	43	**54**	**15.6**
Water vapor diffusion equivalent air layer thickness [m]	0.5	0.4	0.4	0.2	0.3	**0.4**	**--**

4 Remarks

Period of Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or OETI. The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product is produced unchanged. Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

Sample Material

Results of performed tests only refer to the sample material provided. Without explicit written other agreement testing is destructive and the sample material is transferred to the property of OETI, which is entitled to freely decide on storage and disposal.

Issuing

The valid first issue is done in paper and has single-handed signatures. Translations will be marked accordingly on the cover sheet.

Quality Management, Accreditation And Notification

The results are from report VN720 170842.3, dated 06.08.2020.

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065. OETI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body (NB0534). (see http://ec.europa.eu/enterprise/newapproach/nando/). Accreditation was provided by Akkreditierung Austria. The scope of accreditation is listed on www.oeti.biz. Due to the system for the mutual recognition of national accreditations (ILAC/IAF), this accreditation is valid worldwide.

In this report individual non-accredited test procedures are marked with *. Nevertheless, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

According to the decree on the use of the accreditation mark (“AkkZV”) the accredited Conformity Assessment Body is the only one to use the accreditation mark. Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of Regulation (EU) 2016/425 have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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End of Report