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Test Report VN720 170842.3

Application

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

Test Material

"ReForm Calico ECT350"

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

Issuing

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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	"ReForm Calico ECT350"

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

3 Tests Performed / Results

3.1 Description of Specimen

Tested sample: "ReForm Calico 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: "ReForm Calico 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/m ² .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/m ² .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

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Issuing

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

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End of Report