ÖTI – Institut für Ökologie, Technik und Innovation GmbH





Report 70382 Test Report

Reference

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Application

Determination of dynamic coefficient of friction according to EN 13893

Test Material

"Paneele"

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

Number of pages contained: 7

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1 Order

1.1 Chronology

Date	Received	Order
2013-01-18	2013-01-25	Determination of dynamic coefficient of friction according to EN 13893.

1.2 Samples

No	Decolved	Sample Identification
NO.	Received	sample luentincation

- 1 2013-01-22 ⁽¹⁾ "SQ"
- 2 2013-01-22 ⁽¹⁾ "SZ"
- 3 2013-01-22 ⁽¹⁾ "HS"

(1) Samples provided by the customer. (2) Sample drawn by ÖTI.

2 Findings / Tests performed

2.1 Describtion of the specimen, Informations given by the Applicant

The tested samples are laminate floor coverings according to EN 13329 "Laminate floor coverings – Elements with a surface layer based on aminoplastic thermosetting resins – Specifications, requirements and test methods" with different surface types.



2.2 Measurement of dynamic coefficient of friction on dry floor surfaces

Test conditions

According to EN 13893 Test apparatus: GMG 200 SC Sliders: Group consisting of two leather- and one rubber-slider Number of measurements: 5 each, evaluation is taken only from measurements 3-5 Test climate: 23 ±2°C / 50 ±5% relative air humidity

Test results

Tested sample: 1

Magguramont	dynamic coefficient of friction [µ]		
Measurement	length direction	cross direction	
3	0.47	0.46	
4	0.48	0.45	
5	0.47	0.47	
Mean value	0.47	0.46	





Tested sample: 2

Measurement	dynamic coefficient of friction [µ]	
	length direction	cross direction
3	0.45	0.48
4	0.46	0.48
5	0.45	0.49
Mean value	0.45	0.48





Tested sample: 3

Moosuromont	dynamic coefficient of friction [µ]		
measurement	length direction	cross direction	
3	0.49	0.51	
4	0.47	0.50	
5	0.48	0.50	
Mean value	0.48	0.50	





3 Expertise

The judgement of the dynamic coefficient of friction (the lower mean value is determining) as criteria for the safty in walking is based on the experiences in the institute and the published technical literature. The following estimation scheme, based on the "Wuppertaler Gleitreibungsskala" is only valid for a "straight normal walk".

dynamic coefficient of friction [µ]	assessment
< 0.21	extremely unsafe
0.22 – 0.29	unsafe
0.30 – 0.42	partly safe
0.43 - 0.63	safe
> 0.64	extremely safe

Regarding to dynamic coefficient of friction all samples fulfill the technical class DS according to EN 14041 "Resilient, textile and laminate floor covering – Essential characteristics".



4 Remarks

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 the ÖTI.

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 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 ÖTI, which is entitled to freely decide on storage and disposal.

Issuance

The valid first issue is done in paper and has single-handed signatures. For reference purposes and filing an unsigned electronic duplicate can be delivered in pdf format. Duplicates and translations will be marked accordingly on the cover sheet.

Quality management and accreditations

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.



The ÖTI is accredited as Test Laboratory and as Certification Body for products. It also is a Notified Body for several directives with the registration number 0534 (see http://ec.europa.eu/enterprise/newapproach/nando/).

The accreditation by the Federal Ministry of Economy, Family and Youth as testing laboratory was repeated under reference BMWFJ-97.714/0198-I/12/2012. Individual accredited test procedures are marked with the federal laboratory logo. Details and other accreditations are given on request and can be found on <u>www.oeti.biz</u>.

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