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70-pau

Test report
Order No. 270011

Customer:	Kronotex GmbH & Co. KG Wittstocker Chaussee 1 16909 Heiligengrabe
Date of order:	2010-01-12
Order:	Test of the electrostatic behaviour of a laminate floor covering to EN 1815:1997 and classification according to EN 14041:2008
Institution:	EPH - Laboratory Surface Testing
Engineer in charge:	Dipl.-Ing. Detlef Kleber

Dr.-Ing. R. Emmler
Head of Laboratory Surface Testing

The test report contains 3 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

1 Task

The laboratory EPH was ordered to determine the electrostatic behaviour of 1 variant of laminate floor covering to EN 1815:1997 and to carry out the classification according to EN 14041:2008.

2 Test material and test preparation

The costumer has sent 1 variant of laminate floor covering (entrance at the EPH-laboratory: 2010-01-19).

Var.	EPH No.	Product name	Panel formats in mm
1	1038-1039	laminate floor covering „Kronotex Dynamik/Exquisit“	1380 x 193 x 8

From the panels, supplied by the client, two test areas (approx. 1 m x 2 m) were jointed and glued punctually. The surface was wiped with clear water after joining.

3 Measuring methods and devices

The test areas were conditioned 7 days at 23 °C / 25 % RH.
The body voltage (U_P) was measured when walking on the test object in a 40 m^3 test chamber at 23 °C / 25 % RH according to EN 1815. The test areas of each variant were both laid on an isolating PE foam as well as on a dissipative corrugated cardboard.

The following test parameters / test devices were used:

- Floor pad: conductive grounded metal plate / 8 mm isolating plate / PE-foil
- Measuring system for the body voltage according to STM 97.2 comprising field strength measuring device PFM-711 A incl. charge plate attachment CPM-720 and computer for collecting and recording the measured values.

The tests were carried out with the following standard shoes:

- Rubber sole: Testing shoes acc to DIN EN 1815 (and DIN 54345 P. 2), sandals with rubber sole (reference material by BAM Berlin)
- PVC sole: Testing shoes acc. to DIN EN 1815, sandals with PVC sole (EPH - own manufacture since the production of reference materials at TNO Delft/NL was terminated)

4 Test results

The following body voltages were determined:

Var.	EPH - No.	Underlay	U_P / kV	
			PVC sole	Rubber sole
1a	1038	isolating	1,0	0,1
			0,7	0,2
			0,8	0,2
			mean value: 0,8	**mean value: 0,2**
1b	1039	dissipative	1,1	0,3
			1,0	0,3
			1,0	0,3
			mean value: 1,0	**mean value: 0,3**

5 Evaluation

The standard EN 14041 is stipulating the following limit for the classification of floor coverings as “Antistatic floor covering”:

body voltage U_P $U_P \leq 2$ kV

The tested laminate floor covering „Kronotex Dynamik/Exquisit“ meets the requirement for the classification as "Antistatic Floor Covering" in accordance with the European Standard EN 14041:2008.

Dipl.-Ing. Detlef Kleber
Engineer in charge