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Dresden, 27/02/2020
MPET

Test Report Order No. 2718538/1

Client: Dr.Schutz GmbH
Steinbrinksweg 30
31840 Hessisch Oldendorf

Date of order: 13/12/2018

Order: Determination of the resistance against abrasion
according to ASTM 4060 with friction wheel CS17
(mass loss at 1000 revolutions)

Contractor: EPH – Laboratory Surface Testing

Engineer in charge: Dipl.-Ing. (FH) M. Peter



Dr.-Ing. Rico 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 authorized laboratory Entwicklungs-und Prüflabor Holztechnologie GmbH (EPH) was commissioned by Dr.Schutz GmbH in Hessisch Oldendorf to carry out testing the abrasion resistance on 7 flooring samples according to ASTM 4060 with friction wheels CS-17 (mass loss at 1000 revolutions).

2 Test material

For the tests, the contractor was provided by the client coated foils with the following designations (entrance at the EPH laboratory: 23.01.2019):

- Variant 1: WB 1
- Variant 2: WB 2
- Variant 3: WB 3
- Variant 4: WB 4
- Variant 5: WB 5
- Variant 6: WB 6
- Variant 7: PU Seal SM (silk matt)

3 Determination of the resistance against abrasion according to ASTM 4060


The determination of the resistance against abrasion was carried out according to ASTM 4060. The test was carried out with a Taber Abraser 5151 from Taber Industries using CS 17 friction wheels and a load of 1000 g per wheel. After every 1000 revolutions, the friction wheels and samples were cleaned of dust with a brush and the loss of mass was determined.

Performance of the tests: 04/02/2019 – 06/02/2019.

4 Test results

Variant	Mass loss in mg after 1000 revolutions (Wear index) according to ASTM 4060 with friction wheels CS-17			
	single values			mean value
1	33	35	36	35
2	30	31	28	30
3	105	92	83	93
4	37	35	31	34
5	32	24	23	26
6	43	47	45	45
7	19	20	19	19

Variant	Mass loss in mg after 100 revolutions according to ASTM 4060 with friction wheels CS-17			
	single values			mean value
1	3.3	3.5	3.6	3.5
2	3.0	3.1	2.8	3.0
3	10.5	9.2	8.3	9.3
4	3.7	3.5	3.1	3.4
5	3.2	2.4	2.3	2.6
6	4.3	4.7	4.5	4.5
7	1.9	2.0	1.9	1.9


Dipl.-Ing. (FH) M. Peter
Engineer in charge