

Trelleborg Rubber Flooring AB
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Determination of dynamic coefficient of friction

Test Object

Samples of nine rubber floor coverings, approximately 1,0 × 1,4 m. The floor coverings were designated as follows:

| Designation | Article No | Date of manufacture |
|----------------------|-------------|---------------------|
| Checker, svart 310 | 1774690 | 2003-11-24 |
| Checker, svart 1729 | 1774050 | 2003-11-20 |
| Checker, svart 2394 | 1774070 | 2003-11-18 |
| Checker, grå 5485 | 1774080 | 2003-11-21 |
| Checker, objekt | 2921397 | 2003-11-03 |
| Checker Stud, objekt | CS1340 | 2003-11-11 |
| Confetti, objekt | CON70328894 | 2003-11-11 |
| C1, objekt | C1317492 | 2003-11-05 |
| C2 Objekt | C293754092 | 2003-11-06 |

The floor coverings arrived at SP Swedish National Testing and Research Institute on November 25, 2003.

Commission

Determination of dynamic coefficient of friction according to EN 13893 *Resilient, laminate and textile floor coverings – Measurements of dynamic coefficient of friction on dry floor surfaces.*

Test Performance

The test was made according to EN 13893. A slider assembly with three sliders, each of 3,75 cm³, and the total weight of 10,0 kg were pulled with a speed of 250 mm/s. The pulling force was recorded by a loadcell during the central 50 % of the distance. The recorded pulling force was divided by the gravity of the slider assembly to obtain a dynamic coefficient of friction.

At each test, five measurements are made of which only the last three are accounted for. Under "Test Result" these measurements are presented as well as the average value for each floor covering.

The tests were performed on December 16, 2003.
The test climate was 23 ±2 °C / 50 ±5 % R.H.

Test Result

Dynamic coefficient of friction, μ

| Floor Covering | Test 3 | Test 4 | Test 5 | Average |
|----------------------|--------|--------|--------|-------------|
| Checker, svart 310 | 0,68 | 0,66 | 0,66 | 0,67 |
| Checker, svart 1729 | 1,01 | 1,00 | 0,94 | 0,98 |
| Checker, svart 2394 | 0,83 | 0,84 | 0,80 | 0,82 |
| Checker, grå 5485 | 0,83 | 0,90 | 0,90 | 0,88 |
| Checker, objekt | 1,05 | 1,02 | 0,99 | 1,02 |
| Checker Stud, objekt | 1,04 | 1,17 | 1,11 | 1,11 |
| Confetti, objekt | 0,77 | 0,76 | 0,67 | 0,73 |
| C1, objekt | 0,83 | 0,82 | 0,74 | 0,80 |
| C2 Objekt | 1,03 | 0,92 | 0,92 | 0,96 |

Comment

A possible reason for some of the very high results is that the sliders of the slider assembly hooks on to the relief pattern on some of the floor coverings. According to EN 13893, the test result shall be in the direction of the lowest dynamic friction. The floor coverings of this report have only been tested in the transverse direction.

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