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Report No. 371964-06

Fire behaviour classification report according to EN 13501-1:2007

1 Introduction

This fire behaviour classification report defines the classification of the construction product "Durable" in accordance with the procedures according to EN 13501-1:2007.

2 Procedure

Trade name..... Durable
Order by LG Chem. Ltd.
Order of..... 2007-12-19, 2008-01-22
Your reference Lucas Lee, Joon Seo
Test official at TFI..... Dipl.-Ing. Thomas Brunke, extension -132

3 Short sample description

Construction product resilient floor covering
 Type of manufacture heterogeneous PVC-floor covering
 Type of surface slightly structured
 Colouring / patterning patterned
 Material PVC
 TFI reference n° 08-01-0111

The construction product is fully described in the test-report, mentioned under section 4, and its annex KT.

4 Test-Reports and test results used for the classification

4.1 Test-Reports

name of the lab	ordered by	Test-Report No.	Test methods
Textiles & Flooring Institute GmbH	LG Chem. Ltd.	371964-05	EN ISO 9239-1:2002
			EN ISO 11925-2:2002 (15 s ignition time)

4.2 Test results

Test methods	characteristics	number of tests	Test results	
			average	requirement met (Y/N)
EN ISO 9239-1:2002	critical radiant flux (kW/m ²)	3	7,0	
	smoke development (% x min)		383	
EN ISO 11925-2:2002	charred distance ≤ 150 mm	6	-	Y

5 Classification and application

5.1 Reference

This classification is performed according to EN 13501-1:2007.

5.2 Classification

With regard to the fire behaviour the tested construction product is classified: **C_{fl}**

Additionally, with regard to the smoke development the tested construction product is classified: **s1**

The tested construction product thus obtains following classification:

burning behaviour		smoke development
C_{fl}	-	s 1

i.e. **C_{fl}-s1**

5.3 End-use application

The classification is only valid for the construction product, as described under sections 2.,3. and 4., used as a horizontal floor covering installed on a mineral substrate according to EN 13238:2001, either using adhesives or not.

6 Restrictions

This classification report replaces neither a type-test report nor a product certification.

Aachen, 2008-05-05

Dr. Ernst Schröder

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