TFI Report 461953-04

Classification
of the Reaction to Fire according to EN 13501-1:2010

Customer	Milliken Industrials Ltd.
	Beech Hill Plant, Gidlow Lane
	Wigan, Lancashire WN6 8RN
	UNITED KINGDOM
Product	textile floor covering
	TSR 267 1.3mm Micromix mat

This report includes 4 pages and 0 annex(es).

This report is a translation of test report no. 461953-02.

Responsible at TFI

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Aachen, 06 December 2016

Dr. Alexander Siebel
head of the testing laboratory

The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

461953-04

1 Transaction

Test order	Classification of the reaction to fire according to EN 13501-1:2010
Order date	28 October 2016
Your reference	Mark Holbrook
Product designation(s)	TSR 267 1.3mm Micromix mat
TFI sample number	16-11-0009

2 Product specification

The construction product is completely described in the test report mentioned under item 3. The test report provides the basis for the present classification.

3 Results

3.1 Test reports and test results used for the classification

Test laboratory	Customer	Test report no.	Test method
TFI Aachen GmbH	Milliken Industrials Ltd.	461953-03 dated 06 December 2016	EN ISO 9239-1:2010
			-

3.2 Test results

	Test method	Parameter	Number of tests	Result	
				Mean value	Requirements fulfilled (Y/N)
Product	EN ISO 9239-1:2010	Average critical heat flux [kW/m²]	3	3.6	
		Integrated smoke value [% x min.]		581	
	EN ISO 11925-2:2010	Flame tip < 150 mm	-	-	Y*

*According to EN 14041:2008, Section 4.1.4, Table 2, the product mentioned above fulfils the requirements of class E_{fl} without further testing.

3.3 Classification and field of application

The construction product "TSR 267 1.3mm Micromix mat" is classified as follows with regard to the reaction to fire:

D_{fl}

The additional classification with regard to the smoke development is:

s1

The additional classification with regard to burning droplets/particles is:

-

The format of the reaction to fire classification for floor coverings is:

Reaction to fire		Smoke development		
D_{fl}	-	**s**	**1**	

Classification of the reaction to fire: D_{fl} - s1

This classification is valid for the following end use application:

Type of end use application	horizontally laid floor covering
Substrate	noncombustible substrates (Euroclass A1 and A2-s1,d0) with a gross density ≥ 1350 kg/m³
Underlay for installation	no
Type of fixation	glued or unglued
Joint according to EN ISO 9239-1:2010	no

Limitations

This classification document does not represent any type approval or certification of the product.

The classification assigned to the construction product in this report is suited for a declaration of conformity by the manufacturer or a Declaration of Performance within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive or Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This declaration confirms that the design of the product does not require any specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic contents or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 for the attestation of conformity respectively system 3 for the assessment and verification of the constancy of performance is appropriate

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.