

## TEST REPORT N° RL 2021/738

DELIVERY : 15/11/2021

MATERIAL RECEIVED : 27/10/2021

ORIGIN : BELGOTEX FLOORS  
20 Chesterfield Road Willowton  
Pietermaritzburg 3201  
SOUTH AFRICA

NAME OF QUALITY : **SWIRL (Solution Dyed Nylon Tufted Broadloom)**

TESTS TYPE : Reaction to fire tests for floorings according to  
NF EN ISO 9239-1 (February 2013)  
Part 1: Determination of the burning behaviour using a  
radiant heat source

The Technical Director  
**Marc WELCOMME**

Head of Tests  
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Accreditation of Testing Section COFRAC certify the competence of laboratories only for the tests covered by the accreditation.

This test report is only valid as a certificate for the characteristics of the sample which was submitted to the tests and does not prejudge the characteristics of similar products. As a consequence, it is not a product certificate in the sense of Article L 115-27 of the Consumption Code and of the Law dating from June 3<sup>rd</sup> 1994.

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It contains 4 pages and 0 annex.

The laboratory cannot be held responsible for the information provided by the customer, this information is identified in this report.

**ORIGIN OF THE SAMPLE TO CONSIDER:**

Sample provided by the applicant of the test.

**PRODUCT DESCRIPTION DETERMINED BY THE LABORATORY:**

Tufted cut/loop pile carpet (EN 1307 family product).

**INFORMATIONS GIVEN BY THE CUSTOMER :**

Composition of use-surface : 100% polyamide  
Type of primary backing : woven polypropylene  
Type of backing : woven polypropylene + synthetic needled fleece  
Total mass per unit area : 1887 g/m<sup>2</sup>  
Total thickness : 8,7 mm  
Total pile thickness: 5,0 mm  
Colouring : Brown

Flame retardant : no

**Description of test specimens:**

\*Substrate : fibres-cement board  
Density (1800 ± 200) kg /m<sup>3</sup>  
Dimensions 105 cm x 23 cm  
Thickness (8 ± 2) mm

Installation : loose laid

Cleaning : none

**Conditioning :**

At least 14 days (23 ± 2)°C and (50 ± 5) % relative humidity.

**Eventual deviations from the test method:**

None

**Date of test:**

15/11/2021

**Duration of the test:**

The radiation is maintained for 30 minutes.

C.R.E. T is notified by the French Government to the European Commission under n°NB 2401.

**RESULTS :****1) HEAT FLUX**

Specimen	Flame front distance (mm)			Heat flux (kW/m <sup>2</sup> )			Duration of flaming (min/s)	Maximum flame front distance (mm)	Critical Heat flux CHF (kW/m <sup>2</sup> )
	10 min	20 min	30 min	HF 10	HF 20	HF 30			
1 (L)*	210	330	360	9,1	6,5	5,9	30 min 00 s	360	5,9
1 (T)*	280	300	300	7,6	-	-	14 min 00 s	300	7,2
2 (L)	250	290	290	8,2	-	-	17 min 00 s	290	7,4
3 (L)	270	340	340	7,8	-	-	19 min 10 s	340	6,3
Average (L)									6,5

(L)\* → Longitudinally direction

(T)\* → Transversally direction

**Observation : None**

Distance burnt (mm)	Time for each specimen to burn in minutes (min) and seconds (s)			
	1 (L)*	1 (T)*	2 (L)	3 (L)
50	3 min 10 s	2 min 40 s	2 min 50 s	2 min 40 s
100	4 min 20 s	3 min 40 s	4 min 20 s	3 min 50 s
150	5 min 40 s	5 min 00 s	5 min 40 s	5 min 20 s
200	9 min 20 s	5 min 50 s	7 min 00 s	6 min 40 s
250	14 min 50 s	6 min 40 s	9 min 50 s	7 min 50 s
300	18 min 20 s	13 min 30 s		14 min 20 s
350	22 min 00 s			
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

**2) SMOKE DENSITY**

<b>Specimen</b>	<b>Maximum light attenuation (%)</b>	<b>Smoke development (% X min)</b>
<b>1 (L)*</b>	9,4	95,2
<b>1 (T)*</b>	18,8	83,2
<b>2 (L)</b>	15,7	69,6
<b>3 (L)</b>	14,0	89,1
<b>Average (L)</b>	<b>13,0</b>	<b>84,6</b>

**(L)\* → Longitudinally direction**

**(T)\* → Transversally direction**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

\*\*\*End of report\*\*\*