



Centre de Recherches  
et d'Etudes Techniques  
du Tapis

## TEST REPORT N° RL 2011/275-2

DELIVERY : 13/10/2011

MATERIAL RECEIVED : 13/09/2011

ORIGIN : LS CABLE & SYSTEM  
643, Jinpyeong-dong, Gummy-Si, Gyeongbuk  
730-360  
KOREA

NAME OF QUALITY : LS PURGOTEX

TESTS TYPE : Reaction to fire tests for floorings : Orientation behaviour  
using a radiant heat source

The Technical Director  
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Head of Test  
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The results which have been obtained by means of the sample specified above, may  
not be generalised without justification of the representativeness of the samples.

**REACTION TO FIRE FOR FLOORING  
ACCORDING TO NF EN ISO 9239-1 (June 2010)**

**DESCRIPTION OF SAMPLE :**

Flocked carpet, 100% polyamide, yellow colour, PVC backing.

**OBSERVATIONS:**

Test carry out in full adhesion on incombustible fibre cement board substrate of 5,0 mm thick and 1800 kg/m<sup>3</sup> density

**DATE OF TEST:**

13/10/2011

Sample	1 (Lenght)	2 (Width)	3 (Lenght)	4 (Lenght)	Average (Lenght)
Flame front (cm)	21	22	21	20	21
Critical heat flux at extinguishment CF (kW/m <sup>2</sup> )	8,8	8,4	8,6	8,8	8,7
Flame extinction (min)	12'10''	12'	12'	12'	--

**SMOKE DENSITY**

Sample	Maximun attenuation of luminosity (%)	Total attenuation of luminosity (% X min)
1 (Lenght)	81,3	194,1
2 (Width)	81,0	194,8
3 (Lenght)	79,3	185,6
4 (Lenght)	75,9	183,9

**CRITERIA OF CLASSIFICATION ACCORDING TO NF EN 13501-1 (SEPTEMBER 2007) :**

- Critical heat flux  $\geq 3,0$  kW/m<sup>2</sup> : class D<sub>fl</sub>
- Critical heat flux  $\geq 4,5$  kW/m<sup>2</sup> : class C<sub>fl</sub>
- Critical heat flux  $\geq 8,0$  kW/m<sup>2</sup> : class B<sub>fl</sub>

Smoke density :      s1 smoke  $\leq 750$  % X min  
                              s2 smoke  $\geq 750$  % X min

Possibilities of classification : **B<sub>fl</sub> - s1**

**The results do not concern that the behaviour of the sample of a product in conditions particular of the test; they are not intended to be only criteria of the fire hazard presented by the product of use**

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