Dhr. Geert De Clercq
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via certification

your visit of	your reference	our reference	date
2008-11-04		PVH/10986	Zwijnaarde, 2008-12-02

Analysis Report 65715

Required tests :

Classification of reaction to fire in accordance with EN 13501-1:2007

Identification number	Information given by the client		Date of receipt
T810579	quality	FP 400	2008-11-04
	FR treated	yes	
	use-surface	100% polyamide 6	
	substrate, support	75% PES – 25% PA	
	backing layer	latex	
	total mass	1,450 kg/m²	
	pile thickness	±4 mm	
	total thickness	±5 mm	
	surface structure	cut pile	

Pros Van Hoeyland
order responsible

Notified body No: 0493

Reference : T810579 - FP 400

Classification of reaction to fire in accordance with EN 13501-1:2007

Classification of textile floor coverings in accordance with EN 14041 (2004) § 4.1.4 "The textile floor coverings listed in Table 2, in the end uses identified in the table, are classified without further testing (CWFT) in the classes shown and do not require testing in respect of these end uses and classes".

Table 2 – Classes of reaction to fire for textile floor coverings, classified without further testing

Floor covering type[1]	**EN product standard**	**Class**[3] **Floorings**
Non-FR machine-made wall-to-wall carpets and pile carpet tiles[2]	EN 1307	E_{fl}
Non-FR needled textile floor coverings without pile[2]	EN 1470	E_{fl}
Non-FR needled textile floor coverings with pile[2]	EN 13297	E_{fl}

1) Floor covering glued or loose laid over a Class A2-s1,d0 substrate
2) Textile floor coverings having a total mass of max. 4.8 kg/m², a minimum pile thickness of 1,8 mm (ISO 1766) and
   - a surface of 100% wool
   - a surface of 80% wool or more – 20% polyamide or less
   - a surface of 80% wool or more – 20% polyamide/polyester or less
   - a surface of 100% polyamide
   - a surface of 100% polypropylene and if with SBR-foam backing, a total mass of > 0.780 kg/m². All polypropylene carpets with other foam backings are excluded.
3) Class as provided for in Table 2 in the Annex to Decision 2000/147/EC.

Classification: E_{fl}

Performed under accreditation in the fire lab under the responsibility of Pros Van Hoeyland.

Reference : T810579 - FP 400

Classification of reaction to fire in accordance with EN 13501-1:2007

1. Method:

Test Method - EN ISO 9239-1:2002

Standard - EN 13501-1:2007

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.

Floor covering
- substrate : - fibre cement board
  - density (1800 ± 200) kg/m³
  - dimensions 105 cm x 23 cm x 0,5 cm.
- adhesive : - none / specimens were tested loose laid
- cleaning : - textile floor coverings are subjected to the laboratory spray extraction cleaning procedure according to ISO 11379

Conditioning
minimum 14 days at (23 ± 2) °C and (50 ± 5) % RH
or
until constant mass is achieved

Reference : T810579 - FP 400

2. Results:

End of tests: 1 December 2008

Radiant heat flux

Test	flame spread distance (cm)			flame time	heat flux * kW/m²
	10 min	20 min	30 min		
length					
1	15	15	15	12 min 10 s	10.8
width					
1	16	16	16	12 min 0 s	10.6
2	16	16	16	12 min 0 s	10.6
3	17	17	17	12 min 0 s	10.4
average					**10.5**

* heat flux at the time of flame extinguishment or after a test duration of 30 minutes.

Fire classification in accordance with EN 13501-1:2007		
Class	EN ISO 11925-2 or CWFT	EN ISO 9239-1 (test duration = 30 min)
B_{fl}	E_{fl}	heat flux ≥ 8,0 kW/m²
C_{fl}	E_{fl}	heat flux ≥ 4,5 kW/m²
D_{fl}	E_{fl}	heat flux ≥ 3,0 kW/m²

Smoke production

Test	maximum light attenuation (%)	total light attenuation (%min)
length		
1	21	57
width		
1	27	54
2	39	90
3	32	77
average		**74**

Additional classification in accordance with EN 13501-1:2007	
smoke production ≤ 750%.min	s1
smoke production > 750%.min	s2

Reference : T810579 - FP 400

3. Classification:

Reaction to fire classification: **B_{fl} / s1**

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