

Test Report No. SDHL1603003302FB Page 1 of 5 Date: Mar.28, 2016

GUANGZHOU NEWLIFE MAGNET ELECTRICITY CO.,L TD NO.4, 4TH CANGHAI ROAD, YONGHE, GUANGZHOU DEVELOPMEMT ZONE, GUANGZHOU, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : RUBBER MAGNET SGS Ref. No. : CP16-013488GZ Sample Receiving Date : Mar.17, 2016

Test Performing Date : Mar.17, 2016 to Mar.28, 2016

Test Result Summary

Test(s) Requested	Result(s)
EN 13501-1:2007+A1:2009	Classification: B - s1, d0
Summany	

1. For further details, please refer to the following page(s).

Signed for and on behalf of Shunde Branch SGS-CSTC Co., Ltd.

Irvette Zhang

Approved signatory



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TESTS AND RESULTS

Date: Mar.28, 2016

Test Conducted:

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests, Class B. And the test methods as following:

- EN 13823:2010 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2010 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

Mounting and fixing (For EN 13823):

The sample was pasted on the standard substrate (calcium silicate boards with a density of 900 kg/m³) by glue.

Test Results:

Test method	<u>Parameter</u>	Number of tests	<u>Results</u>	
	FIGRA _{0.2MJ} (W/s)		50.8	
EN 13823	THR _{600s} (MJ)		1.4	
	SMOGRA (m^2/s^2)	3	1.5	
	TSP _{600s} (m ²)	J	0.5	
	LFS < edge of specimen		Yes	
	Flaming particles or droplets		No	
EN ISO 11925-2	<i>F</i> s ≤ 150 mm	6	Yes	
Exposure = 30 s	Ignition of the filter paper	3	No	

Remark:

FIGRA — Fire growth rate index used for classification purposes [W/s] For the classes A2 and B, FIGRA_{0.2}MJ For the classes C and D, FIGRA_{0.4}MJ LFS — Lateral flame spread [m] THR_{600s} -Total heat release within 600 s [MJ] SMOGRA –Smoke growth rate [m²/s²] TSP_{600s} –Total smoke production within 600 s [m²]



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Classification and direct field of application:

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Classification:

The product, "Rubber Magnet", classification is as following,

Fire behaviour		Smoke production			Flaming	droplets
В	_	S	1	,	d	0

Reaction to fire classification: B-s1, d0

Remark:

The classes with their corresponding fire performance are given in annex A.

Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is good and F is bad

Statement:

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.

Warning:

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

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Table 1 — Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test method(s)		Classification criteria	Additional classification
	EN ISO 1182 ^a and EN ISO 1716		△ T≤30°C, and △ m≤50%, and t _i =0(i.e. no sustained flaming)	-
A1			PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ^{2 d} and PCS≤2.0MJ/kg ^e	-
or	EN ISO 1182 ^a or		<i>∆T</i> ≤50°C, and <i>∆m</i> ≤50%, and t _i ≤20 s	-
	EN ISO 1716	and	PCS≤3.0MJ/kg ^a and PCS≤4.0MJ/m ² ^b and PCS≤4.0MJ/m ² ^d and PCS≤3.0MJ/kg ^e	-
	EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g



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	EN 13823 and	FIGRA≤120W/s and LFS <edge and<="" of="" specimen="" th=""><th colspan="2" rowspan="2">Smoke production ^f and Flaming droplets/particles ^g</th></edge>	Smoke production ^f and Flaming droplets/particles ^g	
В	EN ISO 11925-2 ⁱ Exposure =30s	<i>THR</i> _{600s} ≤7.5MJ <i>F</i> s≤150mm within 60 s		
С	EN 13823 and	FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤15MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2 i Exposure=30s	Fs≤150mm within 60 s		
	EN 13823 and	FIGRA≤750W/s	Smoke production ^f and	
	EN ISO 11925-2 i Exposure=30s	Fs≤150mm within 60 s	Flaming droplets/particles ⁹	
E	EN ISO 11925-2 Exposure =15s	Fs≤150mm within 20 s	flaming droplets/particles h	
F	No performance determined			

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^e For the product as a whole.

- $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$; s3 = not s1 or s2
- ^g d0 = No flaming droplets/ particles in EN 13823 within 600 s;
- d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

^h Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).



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^c Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4,0 MJ. and s1. and d0.

^d For any internal non-substantial component of non-homogeneous products.

In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.



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SAMPLE INFORMATION AND PICTURES

Thickness: About 0.4mm

About 1.60 kg/m² Mass per unit area:

> Test Face: Rough Face



Before Test (EN 13823)



After Test (EN 13823)

End of Report



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