



## Test Report

Date : 2021-04-15  
No. : DP21040364

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- Applicant** : 东莞市瑞丰无纺布科技有限公司  
东莞市常平镇白石岗交井路8号  
Attn: 邓先生
- Description of Samples** : One kind of submitted sample(s) said to be :  
ITEM NAME:防火棉, 环保棉  
(see the attached photo)  
STYLE/ITEM NO.:防火棉, 环保棉
- Date Samples Received** : 2021-04-09
- Date Tested** : 2021-04-09 to 2021-04-14
- Investigation Requested** : Selected test(s) as detailed herein.
- Conclusion(s)** : The submitted sample(s) **complied** with Schedule 2 Part I of UK Furniture and Furnishings (Fire) (Safety) Regulations 1988 (amended 1989, 1993 and 2010 ).  
The submitted sample(s) **complied** with CAL TB 117:2013 Section 3: Resilient filling material test.

*Shanny Huang*

HUANG Qi-yin, Shanny  
Authorized Signatory





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### Test Results:

1. **UK Furniture and Furnishings (Fire) (Safety) Regulations 1988 (amended 1989, 1993 and 2010) . Schedule 2 Part I: Ignitability test for Non-foam filling materials singly**

Sample : Fibre (White)  
Density (kg/m<sup>3</sup>) : 15.9kg/m<sup>3</sup>  
Test method : BS 5852 – Part II: 1982  
Ignition source : Butane flame ignition source 2 as specified in BS 5852 – Part II:1982  
Conditioning of test specimen : A minimum of 16 hours at 20 ± 5°C and 50 ± 20% R.H.  
Test condition : Temperature :24 °C  
Relative humidity : 60%

The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

### Test Result:

Ignitability performance index : P2(Non-ignition/Pass). See summary below:

Criteria of failure (Clause 4 of BS 5852 – Part II: 1982)

	<u>1<sup>st</sup> Test</u>	<u>2<sup>nd</sup> Test</u>
Progressive smouldering failure		
4.1(a) for source 2 or 3 : any composite that produces externally detectable amounts of smoke, heat or glowing 30min after the removal of the burner tube	N.O.	N.O.
4.1(b) for source 4,5,6 or 7 : any composite that produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib.	N.A.	N.A.
4.1(c) any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction.	N.O.	N.O.
4.1(d) any composite that smoulders until it is essentially consumed within the test duration relevant to the source.	N.O.	N.O.
4.1(e) any composite that smoulders to the extremities of the specimen viz upper or lower margins, either side or to its full thickness, within the duration of the test.	N.O.	N.O.
4.1(f) any test specimen that, on final examination, shows evidence of charring other than discolouration, more than 100 mm in any direction apart from upwards from the nearest part of the original position of the source.	N.O.	N.O.

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### TEST RESULT(S):

	<u>1<sup>st</sup> Test</u>	<u>2<sup>nd</sup> Test</u>
Flaming failure		
4.2(a) for source 2 or 3 : any composite that continues to flame for more than 120s after the removal of the burner tube	N.O.	N.O.
4.2(b) For sources 5 :any composite that continues to flame for more than 10 minutes after the ignition of the crib.	N.A.	N.A.
4.2(c) For sources 6 or 7 :any composite that continues to flame for more than 13 minutes after the ignition of the crib.	N.A.	N.A.
4.2(d) any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	N.O.	N.O.
4.2(e) any test specimen that burns until it is essentially consumed within the test duration relevant to the source.	N.O.	N.O.
4.2(f) any test specimen on which any flame front reaches the lower margin, either side or passes through the full thickness of the specimen within the duration of the test.	N.O.	N.O.

Note :  
1) The flame ceased for 0 minutes 2 seconds for 1<sup>st</sup> test and 0 minutes 0 seconds for 2<sup>nd</sup> test.  
2) If smouldering or flaming failure against the criteria of clause 4 of BS 5852 : Part 2 has occurred but only by way of damage exceeding the limits defined in clauses 4.1(e), 4.1(f) and 4.2(f) the non-foam passes the ignitability test.

Remark :  
1) N.O. denotes : Not observed  
2) N.A. denotes : Not applicable  
3) The Ignitability performance index of sample is designated by the number of the ignition source to which the sample was subjected under BS 5852 : Part II : 1982 preceded by the letters 'P' if the specimen passed that test or by the letter 'F' if it failed.

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### 2. Flammability Test

Ref.: CAL TB 117:2013 Section 3: Resilient filling material test

Sample:Fibre (White)

Conditioning:

Condition test specimens and cigarettes prior to the test for a minimum of 24 hours at  $21^{\circ} \pm 3^{\circ}\text{C}$  ( $70^{\circ} \pm 5^{\circ}\text{F}$ ) and less than 55% relative humidity. If conditions in the test area are not the same as in the conditioning area, tests should begin within 10 minutes of removal of samples from conditioning area.

#### Test Result:

<u>Specimen</u>	<u>Vertical Char Length (nearest 0.1 inch)</u>	<u>Smoldering period (second)</u>	<u>Specimen transitions to open flaming</u>	<u>Comment</u>
1	0.5	20 min 54s	No	Pass
2	0.5	21 min 38s	No	
3	0.5	21 min 14s	No	

#### Requirement:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
  - a) The mock-up test specimen continues to smolder after the 45 minute test duration;
  - b) A vertical char length of more than 1.5 inches (38 mm) develops on the cover fabric;
  - c) The mock-up test specimen transitions to open flaming.
2. The resilient filling material passes the test if three mock-up specimens pass the test.
3. If more than one specimen fails, the resilient filling material fails the test.
4. If any one of the three initial specimens fails, repeat the test on additional three specimens.
5. If all three additional specimens pass the test, the resilient filling material passes the test. If any one of the additional three specimens fails, the resilient filling material fails the test.

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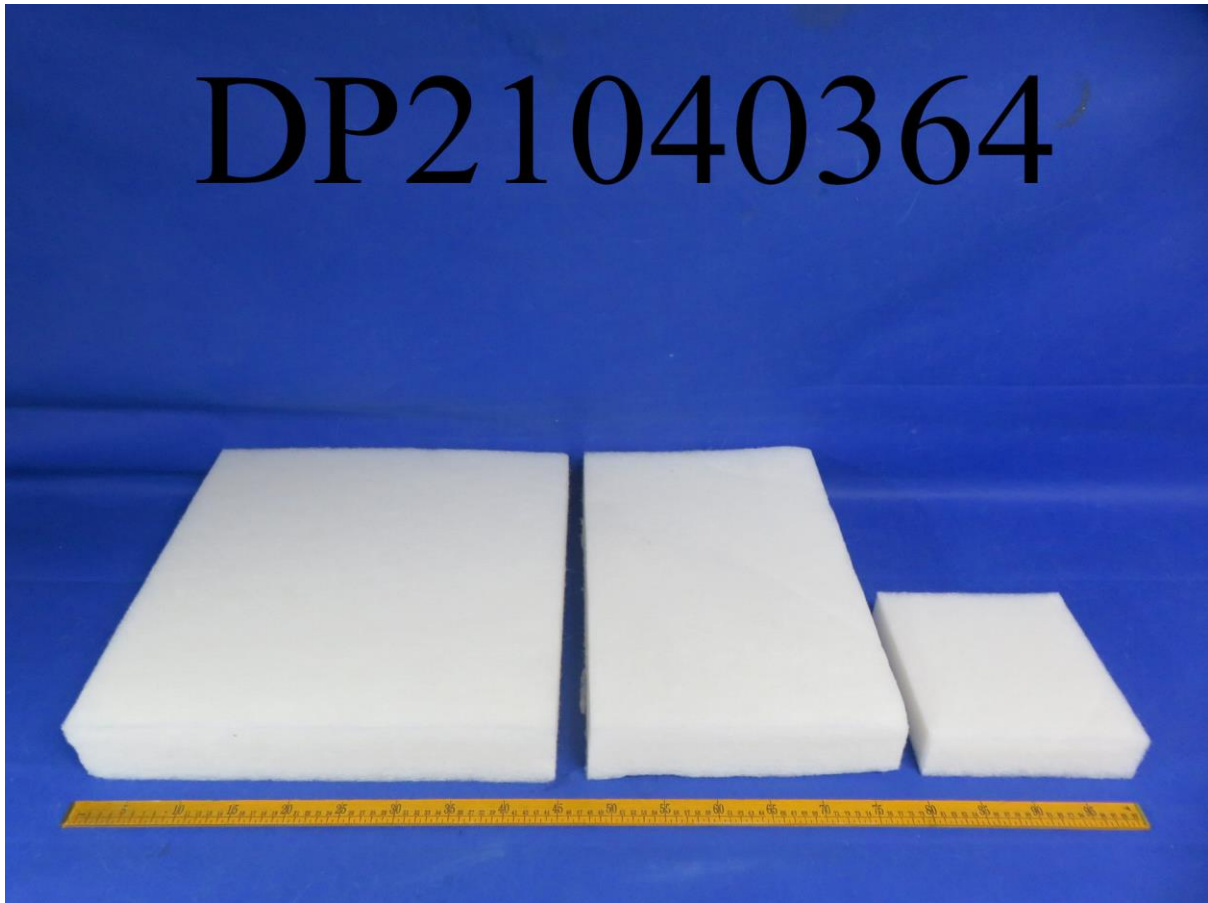


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### Appendix for Photos of the Submitted Sample(s)



\*\*\*\*\* End of Test Report \*\*\*\*\*

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