

Test Report

Number: SZHH01246687

Applicant: ZHANGZHOU XIANGCHENG WANXIN SPONGE CO
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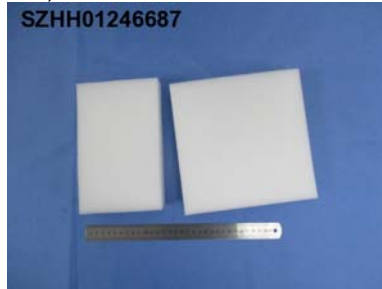
Date: Apr 28, 2018

Attn: MR ZHENG

Sample Description:

One (1) submitted sample said to be **foam**.

Date Sample Received : Apr 19, 2018.



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Samples</u>	<u>Standard – California TB 117-2013</u>	<u>Result</u>
Submitted sample	Section 3: Resilient Filling Material Test	Pass

<u>Tested Sample</u>	<u>Test Item</u>	<u>Result</u>
Tested component of submitted sample	Applicant's requirement on flame retardants content	Pass

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager

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Tests Conducted

1 Flammability Test (California Technical Bulletin 117-2013 Section 3: Resilient Filling Material Test):

Test Method

The apparatus and method of testing were those described in California Technical Bulletin 117-2013, Section 3, for measuring the tendency of resilient filling materials to smolder and contribute to fire propagation, when covered with smolder resistant fabric and subjected to a smoldering ignition source.

Pass/Fail Criteria

A Resilient material is considered pass or fail based on following criteria:

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 minutes test duration;
 - b) A vertical char length (measured as described in step 17.9 of ASTM E1353-08a^{ε1}) 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.

Test Result

Initial Test				
White foam	Vertical Char length (Inches)	Mock-up specimen continues to smolder After 45 Minutes	Mock-up test specimen transitions to open flaming	Test Result
Specimen 1	0.8	No	No	Pass
Specimen 2	0.8	No	No	Pass
Specimen 3	0.7	No	No	Pass

Conditioning: At least 24 hours in an atmosphere having a temperature of $21^{\circ} \pm 3^{\circ} \text{C}$ ($70^{\circ} \pm 5^{\circ} \text{F}$) and less than 55% relative humidity

Remark : No = Was not observed



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2 Flame Retardants

By solvent extraction/acid digestion method, followed by Gas Chromatography Mass Spectrometric (GC/MS), Liquid Chromatographic / Tandem Mass Spectrometer (LC/MS/MS) and Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test item	CAS No	Result (ppm)	Limit (ppm)
		(1)	
Tris(2-chloroethyl)phosphate(TCEP)	115-96-8	ND	1000
Triphenyl phosphate (TPP)	115-86-6	ND	1000
Tris(1-Chloro-2-propyl) phosphate (TCPP)	13674-84-5	ND	1000
Tris(1,3-Dichloro-2-Propyl)Phosphate (TDCPP)	13674-87-8	ND	1000
Short Chained Chlorinated paraffins (SCCP, C10~C13)	85535-84-8	ND	1000
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	1000
Hexabromocyclododecane (HBCDD)	25637-99-4	ND	1000
2-ethylhexyl tetrabromobenzoate (TBB)	183658-27-7	ND	1000
Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate (TBPH)	26040-51-7	ND	1000
2,2-bis(chloromethyl) trimethylene bis(bis(2-chloroethyl) phosphate) (V 6)	38051-10-4	ND	1000
4-(tert-butyl) phenyl diphenyl phosphate (MDPP)	56803-37-3	ND	1000
Bis(tert-butylphenyl) phenyl phosphate (DBPP)	65652-41-7	ND	1000
Tris(4-tert-butylphenyl) phosphate (TBPP)	78-33-1/ 28777-70-0	ND	1000
Pentabromodiphenyl ethers (Penta-BDE)	32534-81-9	ND	1000
Octabromodiphenyl ethers (Octa-BDE)	32536-52-0	ND	1000
Decabromodiphenyl ethers (Deca-BDE)	1163-19-5	ND	1000
Antimony trioxide Δ	--	ND	1000

ppm = parts per million = mg/kg

ND = Not Detected

Detection limit = 10mg/kg for Antimony trioxide, 5mg/kg for other flame retardants

Δ = Determination was based on elemental analysis. The concentration was calculated based on assumption of worst-case.

Tested Component: (1) White sponge

End of report



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