

TOPFLOR PLASTICS NANTONG CO., LTD.

TEST REPORT

SCOPE OF WORK

HOMOGENEOUS VINYL

REPORT NUMBER

191203011SHF-001

TEST DATE(S)

2019-12-03 - 2019-12-31

ISSUE DATE

2019-12-31

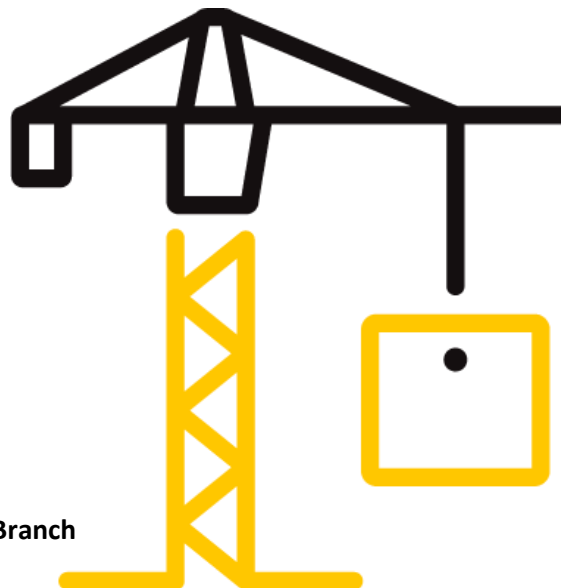
PAGES

7

DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(May 1, 2019)

© 2019 INTERTEK



Test Report

Statement

- 1.This report is invalid without company's special seal for testing on assigned page.
- 2.This report is invalid without authorized person's signature.
- 3.This report is invalid where any unauthorized modification indicated.
- 4.Don't copy this report in partial (except full copy) without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.
- 5.Any holder of this document is advised that this report is for the exclusive use of Intertek's Customer and is provided pursuant to the agreement between Intertek and its Customer. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. This report was made with due care within the limitation of a defined scope of work and on the basis of information, materials and instructions received from the Customer or its nominated third parties. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. The tests results are not intended to be a recommendation for any particular course of action. Customer is responsible for acting as it sees fit on the basis of such results.
- 6.Intertek's written consent is required to use Intertek's name or logo on the object, product or service being tested. The observations and test results in this report relate only to the sample under test. This report alone does not indicate that the item, product or service has passed any Intertek certification program.

Test Report

Issue Date: 2019-12-31

Intertek Report No. 191203011SHF-001

Test Items, Method and Results:

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1.1 CRITICAL HEAT FLUX TEST

The test was conducted in accordance with EN ISO 9239-1. This test evaluates the wind-opposed burning behaviour and spread of flame of horizontally mounted floorings exposed to a heat flux radiant gradient in a test chamber, when ignited with pilot flames.

1.2 IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class B_{fl} with its corresponding fire performance is given in the table below.

Table - Classes of reaction to fire performance for flooring.

Class	Test Method(s)	Classification criteria	Additional classifications
B _{fl}	EN ISO 9239-1 ^a and	Critical flux ^b ≥ 8.0 kW/m ²	Smoke production ^c
	EN ISO 11925-2 ^d Exposure = 15 s	F _s ≤ 150 mm within 20 s	-

Note:

- a. Test duration = 30 min.
- b. Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame within 30 min).
- c. s1 = Smoke ≤ 750 % minutes; s2 = not s1.
- d. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

Test Report

Issue Date: 2019-12-31

Intertek Report No. 191203011SHF-001

Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN ISO 9239-1:2010	Critical flux (transverse), kW/m ²	≥11.0
	Critical flux (longitudinal), kW/m ²	≥11.0
	Smoke production, % minutes	611
EN ISO 11925-2:2010 Exposure = 15 s	F _s ≤ 150 mm within 20 s	Yes

3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production	
<i>B_{fl}</i>	-	s	1

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

Test Report

Issue Date: 2019-12-31

Intertek Report No. 191203011SHF-001

Test Items, Method and Results:

4 Test Photos of EN ISO 9239-1



Before test



After test

Test Report

Issue Date: 2019-12-31

Intertek Report No. 191203011SHF-001

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes	Author	Reviewer
191203011SHF-001	2019-12-31	First issue	Jackie Zhou	Sally Xie