

# ZHEJIANG HOY TECHNOLOGY CO., LTD TEST Report

## SCOPE OF WORKs <Type of Testing – PVC floor covering>

**REPORT NUMBER** 201021061GZU-001

**ISSUE DATE** 1/21/2021

**PAGES** 24

DOCUMENT CONTROL NUMBER TTRF-EN14041-d © 2019 INTERTEK





# Test Report

### Report Number: 201021061GZU-001 Report Date: 2021-01-21

Applicant:	ZHEJIANG HOY TECHNOLOGY CO., LTD
Applicant Address:	Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang Province, China
Sample Information As De	claration:
Product Name:	PVC floor covering
Trade Mark:	/
Model or Type reference:	2mm; 2.5mm; 3mm; 3.2mm; 4mm; 4.2mm; 4.5mm; 5mm; 5.5mm; 6mm; 7mm; 8mm; 9mm; 10mm
Manufacturer:	ZHEJIANG HOY TECHNOLOGY CO., LTD
Manufacturer Address:	Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang Province, China
Intend Use:	/
Ratings:	Reaction to fire: Class B <sub>fl</sub>
	Release of formaldehyde: Class E1
Sample ID:	S181221058-001~005; S201021061-001
Date Received:	12/20/2018
Date Test Conducted:	2/27/2019
Date Received:	10/21/2020 (For reaction to fire classification B <sub>fl</sub> test)
Date Test Conducted:	1/21/2021
Status As Sample Received:	Received was in good condition

#### **General remarks:**

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

"(See remark #)" refers to a remark appended to the report.

"(See Appendix #)" refers to an appendix appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

When determining the test result, measurement uncertainty has been considered.

The clause which indicated with \* is the subcontract test item.



## **Test Report**

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Testing Information	
Standard:	EN 14041: 2004+AC: 2006
Test lab :	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Test lab address:	Room 4103 & 4203, No. 63, Punan Road, Huangpu District, Guangzhou, Guangdong, China
Possible test case verdicts:	
Test case does not apply to the test object:	N/A
Test object does meet the requirement:	P(Pass)
Test object does not meet the requirement:	F(Fail)

#### **Conclusion:**

The submitted samples were tested and found to **comply with** applicable requirements of EN 14041: 2004+AC: 2006.

#### **General Product information:**

This report included 14 models. The client claimed all models were the same in material, structure, method of manufacture, except for the thickness. Material of each layer was that:

- 1) UV layer --- UV (Epoxy acrylic resin, Tripropylene glycol diacrylate, Trimethylolpropane triacrylate)
- 2) PVC wear layer --- Polymer (polyvinyl chloride, dioctyl terephthalate)
- 3) Print film layer --- Polymer (Polyvinyl Chloride)
- 4) The glass fiber mesh layer --- Fiberglass mesh
- 5) Bottom layer --- Polymer and filler (calcium carbonate, polyvinyl chloride)

6) Anti-synovial layer --- Polymer (Polyvinyl Chloride)

The report data were mainly based on model 2mm(2.0mm in thickness) and 10mm(10.0mm in thickness). Test result was listed at the following pages.

Model	Total thickness	Layers constitute	Layers thickness(mm)
		UV layer	0.10
		PVC wear layer	0.30
2	2.0mm	Print film	0.10
211111	2.011111	The glass fiber mesh	0.10
		Bottom layer	1.50
		Anti-synovial layer	0.20
		UV layer	0.10
		PVC wear layer	0.55
2 Emm	2 Emm	Print film	0.10
2.511111	2.511111	The glass fiber mesh	0.10
		Bottom layer	1.80
		Anti-synovial layer	0.20



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Model	Total thickness	Layers constitute	Layers thickness(mm)
		UV layer	0.10
		PVC wear layer	0.55
2mm	2 0mm	Print film	0.10
511111	5.01111	The glass fiber mesh	0.10
		Bottom layer	2.30
		Anti-synovial layer	0.20
		UV layer	0.10
		PVC wear layer	0.55
2.2000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Print film	0.10
3.2mm	3.200	The glass fiber mesh	0.10
		Bottom layer	2.50
		Anti-synovial layer	0.20
		UV layer	0.10
		PVC wear layer	0.55
4 100 100	4.0.000	Print film	0.10
4000	4.0mm	The glass fiber mesh	0.10
		Bottom layer	3.30
		Anti-synovial layer	0.20
		UV layer	0.10
		PVC wear layer	0.55
4.20000	4 2 ma ma	Print film	0.10
4.2000	4.2000	The glass fiber mesh	0.10
		Bottom layer	3.50
		Anti-synovial layer	0.20
		UV layer	0.10
		PVC wear layer	0.55
4 5 100 100	4 E ma ma	Print film	0.10
4.5mm	4.5mm	The glass fiber mesh	0.10
		Bottom layer	3.52
		Anti-synovial layer	0.20
		UV layer	0.10
		PVC wear layer	0.55
Гиана	Г. Ото то	Print film	0.10
SIIIII	5.011111	The glass fiber mesh	0.10
		Bottom layer	4.30
		Anti-synovial layer	0.20



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Model	Total thickness	Layers constitute	Layers thickness(mm)
		UV layer	0.10
		PVC wear layer	0.55
r Emm	r Emm	Print film	0.10
5.5000	5.5000	The glass fiber mesh	0.10
		Bottom layer	4.80
		Anti-synovial layer	0.20
	1	UV layer	0.10
		PVC wear layer	0.55
6 mm	C 0.000	Print film	0.10
6000	6.0mm	The glass fiber mesh	0.10
		Bottom layer	5.00
		Anti-synovial layer	0.20
	1	UV layer	0.10
		PVC wear layer	0.55
_	7.0	Print film	0.10
/mm	7.0mm	The glass fiber mesh	0.10
		Bottom layer	6.30
		Anti-synovial layer	0.20
	1	UV layer	0.10
		PVC wear layer	0.55
0	0.0	Print film	0.10
8mm	8.0mm	The glass fiber mesh	0.10
		Bottom layer	7.30
		Anti-synovial layer	0.20
	1	UV layer	0.10
		PVC wear layer	0.55
0	0.000	Print film	0.10
9mm	9.0mm	The glass fiber mesh	0.10
		Bottom layer	8.00
		Anti-synovial layer	0.20
	1	UV layer	0.10
		PVC wear layer	0.55
10		Print film	0.10
10mm	10.0mm	The glass fiber mesh	0.10
		Bottom layer	9.00
		Anti-synovial layer	0.20
Release	of formaldehyde,	Reaction to fire (Class B <sub>fl</sub> ) tes	t conducted by Notified Body Lab No.1023.
INSTITU	TE FOR TESTING A	ND CERTIFICATION, Inc. Refe	r to report No. 75 35 01704/2019 & No.75 35

01965/2021 for detail.

See Appendix C for products' appearance.



# **Test Report**

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Copy of marking plate:

Marking on accompanied document :

CE
ZHEJIANG HOY TECHNOLOGY CO., LTD
Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang Province, China
21
XXXXX-CPR-2021/01/21
EN 14041:2004 +AC:2006
Product Name: PVC floor covering
Reaction to fire: Class B <sub>fl</sub>
Nominal size: 1200×1824mm
Formaldehyde: Class E1
Slipperiness: Class DS

Note:

a) If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.

b) The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.

c) CE marking and label shall be affixed visibly, legibly and indelibly.

d). "XXX-CPR-2021/01/21" should be the reference number of the DoP.



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#### Test Items, Method and Results:

	EN 14041:2004 +AC:	2006	
Clause	Requirement - Test	Result - Remark	Verdict
4	REQUIREMENTS	•	_
4.1	*Reaction to fire When declared, the floor covering shall be tested and classified according to the requirement of EN 13501-1 and resulting class and subclass shall be declared. If it is decided to make no claim for reaction for fire performance, which marked Class F, no testing is required. If the product listed in Table 1, 2 or 3, in the end uses identified in the tables, are classified without further testing in the classes shown and do not require testing in respect of these end uses and classes.	Rating Class B <sub>fl</sub> . Refer to report No. 75 35 01965 / 2021 for detail.	Ρ
4.2	Content of pentachlorophenol (PCP) Resilient, textile and laminate floor coverings shall not contain PCP or derivative thereof as a component in the production process of the product or of its raw materials	PVC floor covering. Not applicable.	N/A
4.3	*Formaldehyde emission When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified in to one of two classes: E1 or E2	Rating Class E1. Refer to report No. 75 35 01704 / 2019 for detail.	Ρ
4.4	Water-tightness Where required, resilient floor coverings shall meet the requirement of EN 13553	Not claimed	_
4.5	Slip resistance When declared, the floor covering intended to be used in dry and non-contaminated conditions shall have a dynamic coefficient of friction of ≥ 0,30 when tested ex-factory under dry conditions per EN 13893 and shall be declared as technical class DS	Dynamic coefficient of friction: 0.37 Rating Class DS.	Р



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#### Test Items, Method and Results:

	EN 14041:2004 +AC	:2006	
Clause	Requirement - Test	Result - Remark	Verdict
4.6	Electrical behaviour (static electricity) When declared, antistatic floor coverings body voltage shall not exceed 2,0 kV per EN 1815. When declared, static dissipative floor coverings vertical resistance shall not exceed 109Ω per EN 1081. When declared, conductive floor coverings vertical resistance shall not exceed 106Ω per EN 1081.	Not claimed	_
4.7	*Thermal conductivity If required, the thermal conductivity values shall be verify per EN 12524 or EN 12667	Average thermal conductivity: 0.298 W/(m·K) Average thermal resistance: 0.033 (m <sup>2</sup> ·K)/W	_
5	EVALUATION OF CONFORMITY		_
5.1	General	Refer to 5.3	Р
5.2	Type testing	Refer to Clause 4.1 to 4.7	Р
5.3	Factory production control	The manufacturer claimed compliance with the FPC requirements by operating an ISO 9001 system and holds valid ISO 9001 certificate.	Ρ
6	MARKING		—
	Products which conform to the requirements of this document shall be clearly and indelibly marked by the manufacturer either on their package or on an adhesive label with following information: a) the number and the year of this European Standard b) the manufacturer's or supplier's identification c) the product name and batch number	See 'Copy of marking plate'	Ρ



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Appendix A

Reference No. 75 35 01704 Page 1 of 7	
FOR TESTING AND CERTIFICATION, INC. Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic	B INSTITUTE F třída
TEST REPORT Reference No. 75 35 01704/ 2019	R
ZHEJIANG HOY TECHNOLOGY CO., LTD. Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang Province, China	Applicant:
Heterogeneous PVC floor covering (Tile), models: thickness: 2 mm, 10 mm	Product:
ZHEJIANG HOY TECHNOLOGY CO., LTD. Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang Province, China	Manufacturer:
Milan Kovář	Elaborated by:
15" February 2019	Issued on:
Plully Jiří Heš	
Representative of Notified Body No. 1023	
1 Phone: +420 577 601 238 Fax: +420 577 104 855 e-mail: itcliticzlin.cz	Tax & VAT Id No.: CZ47910381 Company Id No.: 47910381



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	Notified Body 1023 763 02 Zlín, Czech Republic	
Notified Body No. 1023 * S	State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory	
	Reference No. 75 35 01704 Page 2 of 7	
1. Introduction		
This report was elabo 08/01/2019 and tests re procedure mentioned ir European Parliament a conditions for the marke	orated on the basis of the application <i>No.</i> 753501704, registered on results carried out by the notified testing laboratory in accordance with the n the article 1.4 of the Annex V to the Regulation (EU) No. 305/2011 of the and of the Council of 9 March 2011, as amended, laying down harmonised eting of construction products ("CPR").	
2. Assessment and v No 305/2011 of the Eu	verification of constancy of performance according to Regulation (EU) propean Parliament and of the Council, as amended	
Floor coverings a the Regulation (EU) No 2011 laying down harr Council Directive 89/10	is construction products are assessed on the basis of relevant clauses of o 305/2011 of the European Parliament and of the Council of 9th March monised conditions for marketing of construction products and repealing 6/EEC as amended (called "CPR")	
2.1 System of assessr	ment and verification of constancy of performance (AVCP)	
The submitted product	is assessed pursuant to system of AVCP 3 of the CPR (Annex V).	
The type testing was ca 14041:2004/AC:2006).	arried out according to Annex ZA of the standard ČSN EN 14041 (EN	
2.2 Indicators specifyi	ing basic requirements for construction works	
The initial type testing ( in the following range of	testing) was carried out by the notified body (the notified testing laboratory) f relevant properties according to Table ZA.4 (of the ČSN EN 14041):	
Reaction to fire		
- ignitabilit	ty – surface exposure according to ČSN EN ISO 11925-2 (exposure time:	
- classifica	ation according to ČSN EN 13501-1+A1	
Formaldehyde e	emission according to ČSN EN 717-1 (thickness:10 mm, only)	
2.3 Product specifica	ation	
DV/C botorogonoous flo	or covering tiles with total thickness: 2 mm and 10 mm	



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Notified Body No. 1023	* State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory
	Reference No. 75 35 01704 Page 3 of 7
Composition: • Total thickne: PVC), print fil layer (0.20 m • Total thickne: PVC), print fil P+filler), anti-	ss: 2 mm – UV layer - epoxy acrylic resin (0.10 mm), wear layer (0.30 mm – lm (0.10 mm), bottom layer (1.50 mm – PVC-P+filler), anti-synovial (anti-slip) m - PVC) ss: 10 mm – UV layer - epoxy acrylic resin (0.10 mm), wear layer (0.55 mm – lm (0.10 mm), glass fiber mesh (0.10 mm), bottom layer (9.00 mm – PVC- -synovial (anti-slip) layer (0.20 mm - PVC)
Standard tile dimens • 1200 mm x 1	ions: 824 mm
2.4 Sampling place	e and number of samples taken
The test samples v follows: • Heteroge pcs of (25	vere sent by the manufacturer. The number of the test samples sent was as neous PVC floor covering tiles, model: thickness: 2 mm in the amount of 20 $50 \times 90$ ) mm
Heteroge     pcs of (25)	neous PVC floor covering tiles, model: thickness: 10 mm in the amount of 20 50 x 90) mm , 5 pcs of tiles (1220 x 220) mm packed into PE foil
The test samples we 01704/2 on 07/01/20	ere registered under the registration numbers 75 35 01704/1 and 75 35 119.
Test sample photo:	
	250510714
	400



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	763 02 Zlín, Cze	ch Republic	
Notified Body No. 1023 * State Aut	norized Body No. 224 * Product and Manag	ement Systems Certification Bodies * Accred	ited
	Laboratory	Poforonoo No. 75 25 (	1704
		Page	5 of 7
2.6 Test results			
2.6.1 Ignitability results			
Table 1 – Ignitability test result	ts - Total thickness: 2 mm		
Characteristic	Surface exposure test – lengthwise direction (characteristic for individual test specimens)	Surface exposure test – crosswise direction (characteristic for individual test specimens)	
Ignition of the test specimen	No, No, No, No, No	No, No, No, No, No	
Yes/No			
Flame reaching of a mark in	No, No, No, No, No	No, No, No, No, No	
distance of 150 mm Yes/No			
distance of 150 mm Yes/No Burning time to reach 150 mm (s)			
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper	-, -, -, -, - No, No, No, No, No	-, -, -, -, - No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens)	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens)	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens)	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic Ignition of the test specimen Yes/No	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul <b>Characteristic</b> Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No Burning time to reach 150 mm (c)	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	-, -, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	
distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper Table 2 – Ignitability test resul Characteristic Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No Burning time to reach 150 mm (s) Ignition of the filter paper	-, -, -, -, - No, No, No, No, No ts - Total thickness: 10 mm Surface exposure test – lengthwise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	-, -, -, - No, No, No, No, No Surface exposure test – crosswise direction (characteristic for individual test specimens) No, No, No, No, No No, No, No, No, No -, -, -, - No, No, No, No, No	



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E		INSTITUT	E FOR TES Notifie 763 02 Zlí	TING AND C ed Body 1023 n, Czech Repu	Jublic	ATION	
N	Notified Body No. 1023 * S	State Authorized Body N	lo. 224 * Product a Laboratory	nd Management Syste	ms Certification B	odies * Accredited	_
					Reference	e No. 75 35 0170 Page 7 of	04 F 7
•	Test Report of accr accredited laborato	redited laboratory, rry No. 1004, in Zlír	reference No. n, on 18/01/20	753501704-01 19	1, elaborateo	by ITC a.s.,	
•	Test Report, refere dřevařský, Praha, s	nce No. MVZ-A-20 s.p., accredited tes	19-000841, el ting laboratory	aborated by V No. 1031, Pra	ýzkumný a v ague, on 17/	vývojový ústav 01/2019	
٠	Classification Repo ITC, a.s. Zlín, on 18	ort using Results of 8/01/2019	Reaction to F	ire No. 75 35 (	01704K/2019	9, elaborated b	У



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ITC	INSTITUTE FOR TESTING AND CERTIFICATION třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic	I, INC.
	TEST REPORT	
	Reference No. 75 35 01965/ 2021	
	Applicant: ZHEJIANG HOY TECHNOLOGY CO., LTD. Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang Province, Chi	na
	Product: Heterogeneous PVC floor covering (Tile), models: thickness: 2 mm, 10 mm	
	Manufacturer: ZHEJIANG HOY TECHNOLOGY CO., LTD. Liuli Industrial Park, Ganpu Town, Haiyan Coun Jiaxing City, Zhejiang Province, China	ty,
	Elaborated by: Milan Kovář Issued on: 5 <sup>th</sup> January 2021	
	FED BODY 10-2	
	Jin Hes	
	Representative of Notified Body No. 1023	
	Tax 8 VAT Id No.: C247910381 Phone: +420 577 601 238 Fax: +420 577 104 855 e-mail: It Company Id No.: 47910361 +420 577 601 623 +420 577 601 702 ww	to®itozin.cz ww.Rozin.cz



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Ą	Notified Body 1023 763 02 Zlín, Czech Republic	
Not	ified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory	
	Reference No. 75 35 01965 Page 2 of 6	
1.	Introduction	
This r 11/11, proce Europ condit	eport was elaborated on the basis of the application <i>No.</i> 753501965, registered on /2020 and tests results carried out by the notified testing laboratory in accordance with the dure mentioned in the article 1.4 of the Annex V to the Regulation (EU) No. 305/2011 of the ean Parliament and of the Council of 9 March 2011, as amended, laying down harmonised lons for the marketing of construction products ("CPR").	
This p	roduct was assessed by the NB 1023-ITC, a.s. Zlin in February 2019 and documented by: Test Report No. 753501704/2019, elaborated by the NB 1023 - Institut pro testování a certifikaci (ITC), a.s., Zlín	
Testin	g range was: Reaction to fire (on $E_{t}$ class-ignitability test) and formaldehyde emission.	
In 202 applic	0 the applicant sent Statement on constancy of the product from February 2019 and the ation (No. 753501965) – for reaction to fire additional testing on $B_{\rm fl}$ class.	
F Regula laying Directi	loor coverings as construction products are assessed on the basis of relevant clauses of the ition (EU) No 305/2011 of the European Parliament and of the Council of 9th March 2011 down harmonised conditions for marketing of construction products and repealing Council we 89/106/EEC as amended (called "CPR")	
2.1 Sy	stem of assessment and verification of constancy of performance (AVCP)	
The su	bmitted product is assessed pursuant to system of AVCP 3 of the CPR (Annex V).	
The typ 14041:	be testing was carried out according to Annex ZA of the standard ČSN EN 14041 (EN 2004/AC:2006).	
2.2 Ind	icators specifying basic requirements for construction works	
The ini n the f	ial type testing (testing) was carried out by the notified body (the notified testing laboratory) ollowing range of relevant properties according to Table ZA.4 (of the ČSN EN 14041):	
•	Reaction to fire	
	ignitability – surface exposure according to ČSN EN ISO 11925-2 (exposure time: 15s) (test results were taken over)	
	burning behaviour using a radiant heat source according to ČSN EN ISO 9239-1 /test samples were not glued to the standard substrate/	



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211	Notified Body 1023 763.02 Zlin, Czech Republic	
Notifie	d Body No. 1023 * State Authorized Body. No. 224 * Product and Management Systems Certification Bodies * Accredited	
	Laboratory	
	Reference No. 75 35 01965 Page 3 of 6	
-	classification according to ČSN EN 13501-1	
2.3 Pro	oduct specification	
PVC het	erogeneous floor covering tiles with total thickness: 2 mm to 10 mm.	
• T	iuon of total thickness: 2 and 10 mm otal thickness: 2 mm – UV layer - epoxy acrylic resin (0.10 mm), wear layer (0.30 mm	
P	VC), print film (0.10 mm), bottom layer (1.50 mm – PVC-P+filler).	
P	VC), print film (0.10 mm), bottom layer (9.30 mm – PVC-P+filler).	
Standard	tile dimensions:	
• 12	200 mm x 1824 mm	
Laying wa	ay: loose	
2.4 Sam	pling place and number of samples taken	
The test : follows:	samples were sent by the manufacturer. The number of the test samples sent was as	
•	Heterogeneous PVC floor covering tiles, model: thickness: 2 mm in the amount of 24 pcs of (305 x 610 x 2) mm	
•	Heterogeneous PVC floor covering tiles, model: thickness: 10 mm in the amount of 24 pcs of (305 x 610 x 10) mm	
The test s 01965/2 o	amples were registered under the registration numbers 75 35 01965/1 and 75 35 on 02/11/2020.	
2.5 Place	and date of testing	
Institu	it pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlin	
Institu	it pro testování a certifikaci (ITC), a.s. CSI division - Centrum stavebního inženýrství	
Pragu	e, NB 1390, accredited test laboratory No.1007.4 (January 2021)	



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ITC	INSTITUTE FOR TESTING Notified Bo 763 02 Zlin, Cz	S AND CERTIFICATION dy 1023 ech Republic	
Notified Body No. 1023 * State A	uthorized Body No. 224 * Product and Mana Laboratory	gement Systems Certification Bodies * Accre	dited
		Reference No. 75 35 Page	01965 4 of 6
2.6 Test results			
2.6.1 Ignitability results			
lapitability test results were to	- I and a star of a star o		
<ul> <li>Test Report No. 7535 certifikaci (ITC), a.s., 3</li> <li>Table 1 – Ignitability test results</li> </ul>	01704/2019, elaborated by the N Zlín Its - Total thickness: 2 mm	B 1023 - Institut pro testování a	
Characteristic	Surface exposure test – lengthwise direction (characteristic for individual test specimens)	Surface exposure test – crosswise direction (characteristic for individual test specimens)	
Ignition of the test specimen Yes/No	No, No, No, No, No	No, No, No, No, No	1
Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No, No	No, No, No, No, No	
Burning time to reach 150 mm (s)	·, ·, ·, ·, ·	5555F	
gnition of the filter paper	No, No, No, No, No	No, No, No, No, No	
fable 2 – Ignitability test resu	ts - Total thickness: 10 mm		
Characteristic	Surface exposure test – lengthwise direction (characteristic for individual test specimens)	Surface exposure test – crosswise direction (characteristic for individual test specimens)	
		No No No No No	
Ignition of the test specimen Yes/No	No, No, No, No, No	NO, NO, NO, NO, NO	
gnition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No, No No, No, No, No, No	No, No, No, No, No	
Ignition of the test specimen Yes/No Flame reaching of a mark in distance of 150 mm Yes/No Burning time to reach 150 mm (s)	No, No, No, No, No No, No, No, No, No	No, No, No, No, No No, No, No, No, No	



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ITC	INSTITUT	E FOR TESTING AN Notified Body 10 763 02 Zlín, Czech F	D CERTIFICATION 123 Republic	
Notified Body No. 1023 * Stat	e Authorized Body g behaviour us	No. 224 * Product and Management Laboratory	Systems Certification Bodies * Accredite Reference No. 75 35 01: Page 5 : Ce	d 965 of 6
Table 3 - Results of burnin Characteristic	g behaviour us Measuring unit	ing a radiant heat source Crosswise direction measurement	- Total thickness: 2 mm Lengthwise direction measurement (mean value)	
Maximum distance of flame spread	mm	200	216.7	
Critical heat flux (CHF)	kW/m <sup>2</sup>	9.1	8.8	
Distance of flame spread at 10th min.	mm	180	213.3	
HF-10	kW/m <sup>2</sup>	9.5	8.8	
Distance of flame spread at 20th min.	mm	(-)	(-)	
HF-20	kW/m <sup>2</sup>	(-)	(-)	
Distance of flame spread at 30th min.	mm	(-)	(-)	
HF-30	kW/m <sup>2</sup>	(-)	(-)	
Maximum light attenuation	%	49.7	54.7	
Integrated smoke value	% x min	388.8	408.9	
Table 4 - Results of burning	g behaviour usi Measuring unit	ng a radiant heat source - Crosswise direction measurement	- Total thickness: 10 mm Lengthwise direction measurement (mean value)	
flame spread	mm	220	240.0	
Critical heat flux (CHF)	kW/m <sup>2</sup>	8.7	8.3	
Distance of flame spread at 10th min.	mm	220	226.7	
HF-10	kW/m <sup>2</sup>	8.7	8.6	
Distance of flame spread at 20th min.	mm	(-)	(-)	
HF-20	kW/m <sup>2</sup>	(-)	(-)	
Distance of flame spread	mm	(-)	(-)	
at souri mai.	kW/m <sup>2</sup>	(-)	(-)	
HF-30			70.0	
HF-30 Maximum light attenuation	%	68.0	72.8	



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Appendix B

ISO 9001 certificate





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#### Appendix C: Product photo





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Appendix D: Revision history

Approved by:

Kelming Wong

Name:Kelming WangTitle:Senior Project Engineer

Prepared by:

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Name:Kevin PanTitle:Project Engineer

**Revision:** 

Report No.	Date	Changes	Author	Reviewer
181221058GZU-001	2/27/2019	First issue	Kevin Pan	Kelming Wang
201021061GZU-001	1/21/2021	Updated reaction to fire classification to Class B <sub>fi</sub>	Kevin Pan	Kelming Wang

The End of Report