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检测
TESTING
CNAS L14870

Test Report

Report No.: WT2025030033-1B

Principal: Yulin Keli Keying Technology Co., Ltd.

Sample: Inorganic fiberboard

Category: Commissioned Test

Qingdao Railway Detection Co., Ltd.

QingDao Railway Detection Co., LTD.
Test Report

Report No.: WT2025030033-1B

Test Sample	Inorganic fiberboard	**Category**	Commissioned Test
Principal	Yulin Keli Keying Technology Co., Ltd. Keli keying Company, Qingshui Northroad, Qingshui Industrial Park, Yushen Industrial Zone,Yulin City, Shaanxi Province		
Manufacturer	Yulin Keli Keying Technology Co., Ltd. Keli keying Company, Qingshui Northroad, Qingshui Industrial Park, Yushen Industrial Zone,Yulin City, Shaanxi Province		
Brand/Mark	_____	**Sample Status**	no obvious appearance defects
Sample Source	submitted by principal	**Sample Receipt Date**	03/31/2025
Sample Qty.	1 set	**Test Date**	04/07/2025~04/08/2025
Type Specification	_____		
Conclusion Standard	_____		
Test Items	Optical density [Ds(4)], Optical density [Ds(10)], Optical density (Ds max), Toxicity index (CIT_G)		
Conclusion	Please refer to page 2~3 for test results. **(Test special seal)** **Date of issue: 05/30/2025**		
Notes	1. The entrusted information above is provided and confirmed by the principal. 2. Sample No.: WT2025030033-2. 3. Sample characteristics: test surface use surface, density about 1216kg/m³, color orange, type inorganic fiberboard, coating coverage rate 100%, form block-shaped.		

Editor: Kuang tong tong **Checker:** Liu cui **Approver:** Tang xiaona

Test Results

No.	Parameter		Unit	Test Result 4min			Test Result 8min			Test Standard
				Specimen 1	Specimen 2	Specimen 3	Specimen 1	Specimen 2	Specimen 3	
1	CO_2		µl/l	244.97	15.46	483.02	2295.88	1101.96	2094.45	EN 17084:2018 Method 1
	CO		µl/l	229.51	111.70	203.26	896.05	586.58	802.66	
	HBr		µl/l	0	0.03	0	0	0	0	
	HCl		µl/l	0	0	0	0	0	0	
	HCN		µl/l	1.28	0.30	2.84	5.04	4.87	6.68	
	HF		µl/l	0	0	0	0	0	0	
	NO_x		µl/l	34.86	0.75	25.94	43.28	41.65	39.79	
	SO_2		µl/l	0.85	0.51	1.46	3.35	0.64	2.93	
	CO_2		mg/m^3	370.49	23.09	716.97	3430.67	1631.62	3087.52	
	CO		mg/m^3	220.88	106.13	192.00	852.06	552.70	752.97	
	HBr		mg/m^3	0	0.07	0	0	0	0	
	HCl		mg/m^3	0	0	0	0	0	0	
	HCN		mg/m^3	1.19	0.27	2.59	4.62	4.43	6.05	
	HF		mg/m^3	0	0	0	0	0	0	
	NO_x		mg/m^3	55.12	1.18	40.25	67.62	64.47	61.33	
	SO_2		mg/m^3	1.87	1.12	3.15	7.29	1.37	6.27	
	Toxicity index	CIT_4	-	0.1324	0.0095	0.1020	-	-	-	
		$\overline{CIT_4}$	-	0.0813			-			
		CIT_8	-	-	-	-	0.2058	0.1776	0.1881	
		$\overline{CIT_8}$	-	-			0.1905			
		CIT_G	-	0.1905						
	Parameter		**Unit**	**Test Result**						**Test Standard**
				Specimen 1	**Specimen 2**	**Specimen 3**	**Average**			
	Time to ignition		s	-	-	-	-			EN 17084:2018 Method 1
	Time to extinction		s	-	-	-	-			
	Mass before test		g	62.4	72.5	63.1	66.0			
	Mass remaining after test		g	61.3	71.6	62.1	65.0			
	Mass lost		g	1.1	0.9	1.0	1.0			
	Intumescent behaviour		-	No	No	No	-			

Test Results

No.	Parameter	Unit	Test Result				Test Standard
			Specimen 1	Specimen 2	Specimen 3	Average	
2	Optical density [Ds(4)]	-	51.4	41.1	53.4	48.6	EN ISO 5659-2:2017
	Optical density [Ds(10)]	-	39.4	53.7	49.2	47.4	
	Optical density (Ds max)	-	52.3	55.4	57.0	54.9	
	Clear-beam correction factor (Dc)	-	4.4	4.7	5.3	4.8	
	Time to ignition	s	-	-	-	-	
	Time to sustained flaming	s	-	-	-	-	
	Time to particular burning behaviour	s	-	-	-	-	
	Particular burning behaviour	-	-	-	-	-	

Notes

1. Optical density [Ds(4)], Optical density [Ds(10)], Optical density (Ds max) and Toxicity index (CIT_G)
1.1 Use the wire grid or not: no.
1.2 FED/FEC: no requirement.
1.3 The correction factor C_f: 12.0334.
1.4 Details of any invalid tests and the reasons for these: no.
1.5 Number of specimens tested: 3 replicate specimens were tested under the same conditions.
1.6 The substrate used and the method of fixing specimens onto the substrate: not using substrate.
1.7 Specimen construction: square with sides measuring 75mm±1mm and thickness no more than 25mm.
1.8 Specimen conditioning: specimens were conditioned to constant mass at (23±2)°C and (50±5)%RH for 24h.
1.9 Specimen preparation: the principal provided square specimens with a side length of 75mm±1mm and thickness 9.5mm.
1.10 The mode of testing: A. E.
A: Without pilot flame, B: With pilot flame.
C: Irradiance 25kW/m^2, chamber wall temperature 40℃±5℃, the distance between cone heater and the specimen 25mm.
D: Irradiance 25kW/m^2, chamber wall temperature 50℃±5℃, the distance between cone heater and the specimen 50mm (Intumescent material).
E: Irradiance 50kW/m^2, chamber wall temperature 55℃±5℃, the distance between cone heater and the specimen 25mm.
F: Irradiance 50kW/m^2, chamber wall temperature 65℃±5℃, the distance between cone heater and the specimen 50mm (Intumescent material).
1.11 These results relate only to the behaviour of the specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential smoke obscuration hazard of the product in use.
1.12 Main instrument facilities
1.12.1 Name FTIR Gas Analyser, model CTCTY-FTIR, calibration valid until 7/2/2025.
1.12.2 Name Plastic Optical Density Analyser, model CTCTYTech-GBT8323-2, calibration valid until 1/13/2026.
2. "-" means not applicable.

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Test Report Annex

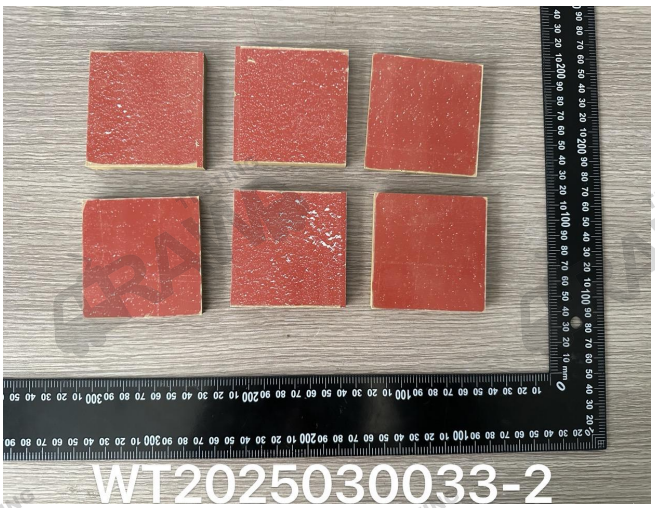

Figure 1 - Sample No. WT2025030033-2 received status

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Notes

1. Test site: Qingdao Railway Detection Co., Ltd..

2. The test results given in this test report should only be used for the purposes of scientific research, teaching, enterprise internal quality control and enterprise product development and so on.

End of Report

Declaration

1. The test report is invalid without "test special seal" and "page seal".

2. This report is invalid without the signatures of "editor, checker, approver".

3. This report is invalid if it is altered, copied in whole or in part, transferred privately, embezzled, falsely used or tampered with in any other form. The laboratory shall investigate the corresponding legal responsibilities for the above mentioned behaviors.

4. It should be submitted in writing to the laboratory within 15 days from the date of issue of this report if the principal has any objection to this report, and overdue request is not acceptable.

5. Unrepeatable test which can not carry on retest, no longer carry on retest. The principal waives the right of dissent.

6. The entrusted test sample and the entrusted information are provided by the principal, and the laboratory is not responsible for its authenticity. The entrusted test results are only applicable to the samples received. The laboratory shall not bear any economic or legal liability for the direct or indirect loss and all legal consequences arising from the use and use of the report and the contents contained therein.

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