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中国认可
国际互认
检测
TESTING
CNAS L1209

Test Report

Report Number: WT20240133(E)

Name of Sample: PVB film for building

Client: VFG FILM JOINT STOCK COMPANY

Test Category: Consignment inspection

China Building Material Test&Certification Group Qinhuangdao Co.,Ltd.

National Glass Quality Inspection and Testing Center

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中国建材检验认证集团秦皇岛有限公司
China Building Material Test & Certification Group Qinhuangdao Co., Ltd.

国检集团

国家玻璃质量检验检测中心
National Glass Quality Inspection and Testing Center

No.: WT20240133(E)

Test Report

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Name of sample	PVB film for building	Trademark	/
Client	VFG FILM JOINT STOCK COMPANY	Contact information	13242466628
Address of client	2nd Floor, Detech Building, 8 Ton That Thuyet, My Dinh 2 Ward, Nam Tu Liem District, Ha Noi, Vietnam	Test Category	Consignment inspection
Manufacture	VFG FILM JOINT STOCK COMPANY	Class/Category	Building film
Contract number	20240049	Production date/Batch number	/
Judgment method	GB/T 32020-2015	Date of accepting sample	Jan. 11, 2024
Test address	No. 91, West Section of Hebei Street, Haigang District, Qinhuangdao City, Hebei Province	Test item	Size, Volatile mass fraction, etc.
Sample information	Specification & quantity: Film 7m×1000mm 2 pieces Laminated glass 300mm×150mm 2 pieces Laminated glass 60mm×60mm 3 pieces Laminated glass 300mm×300mm 6 pieces Film thickness:0.38mm Laminated glass structure: 3mm clear glass+0.38mmPVB+3mm clear glass Model / color: Colorless Sample status: PVB samples-aluminum film-sealed package, meet the testing requirements		
Conclusion	Upon testing, the test items of the PVB film for building meet the requirements of the building film in GB/T 32020-2015 "Polyvinyl butyral interlayer for laminated glass". (the following blank)		
Remarks			

Editor:

梁晓雷

Auditor:

李可川

Approval:

李可川

Dedicated Inspection Seal

Date of issue: Jan. 31, 2024



Test Report Result

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Name of sample		PVB film for building		Sample Coding		JP2024-004	
Test Item		Test method	Sample number	Test results		Criterion (GB/T 32020-2015)	Single conclusion
Size		GB/T 32020-2015 5.3	26~27	Length deviation: 20.0mm, 18.0mm Width deviation: 7.0mm, 12.0mm Thickness deviation: -0.01mm、-0.01mm Adjacent two points deviation: 0.007mm、0.006mm		Article 4.2, Article 6.4.1	Qualified
Volatile mass fraction		GB/T 32020-2015 5.4.1	23~25	Average: 0.36%		0.35%~0.55%	Qualified
Yellow index		HG/T 3862-2006	12~14	Average: 2.8		≤8	Qualified
Roughness Rz	Front	GB/T 32020-2015 5.4.3	26	Average: 19μm		15μm~50μm	Qual-ified
	Back			Average: 23μm			Qual-ified
Dimensional change rate		GB/T 32020-2015 5.4.4 GB/T 12027-2004	20~22	Average value of transverse dimensional change rate: 1.7% Average value of longitudinal dimensional change rate: -0.7%		≤12%	Qualified
Tensile strength		GB/T 32020-2015 5.4.5 GB/T 1040.3-2006 GB/T 1040.1-2006	15~19	Average: 24.9MPa		≥20.0MPa	Qualified
Fracture tensile strain		GB/T 32020-2015 5.4.5 GB/T 1040.3-2006 GB/T 1040.1-2006	15~19	Average: 227.7%		≥200%	Qualified
Knocking value		GB/T 32020-2015 5.4.6	1~2	Average: 9		≥8	Qualified
Light transmittance		GB/T 32020-2015 5.4.7 GB/T 2410-2008 Method A Haze meter method	3~5	Average: 88.7%		≥85%	Qualified

(Continued on next page)

Name of sample		PVB film for building		Sample Coding	JP2024-004
Test Item	Test method	Sample number	Test results	Criterion (GB/T 32020-2015)	Single conclusion
Haze	GB/T 32020-2015 5.4.7 GB/T 2410-2008 Method A Haze meter method	3~5	Average: 0.31%	≤0.60%	Qualified
High temperature resistance	GB/T 32020-2015 5.4.8 GB/T 5137.3-2002 6	6~8	3 samples did not produce bubbles, discoloration and other defects beyond 15mm from the edge or 10mm from the crack	Article 4.3, Article 6.4.1	Qualified
Humidity resistance	GB/T 32020-2015 5.4.9 GB/T 5137.3-2002 7	9~11	3 samples did not produce bubbles, discoloration and other defects beyond 15mm from the edge or 10mm from the crack	Article 4.3, Article 6.4.1	Qualified
Radiation resistance	GB/T 32020-2015 5.4.10 GB/T 5137.3-2002 5	3~5	Irradiation resistance: 98.51%, 99.89%, 99.85%	≥95%	Qualified
Remarks: /					
Blanks here					
Reporter: 梁晓雷		Checker: 张俊			
Date of test: Jan. 15, 2024 to Jan. 30, 2024					



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Instruments list

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NO.	Instrument name	Instrument number
1	Steel ruler	QCTC-B-025
2	Steel tape	QCTC-B-063
3	Bench thickness gauge	QCTC-B-112
4	Blast drying oven	QCTC-A-104
5	Electronic balance	QCTC-A-231
6	Vacuum drying chamber	QCTC-A-233
7	Spectral colorimeter	QCTC-A-004
8	Roughness Tester	QCTC-A-234
9	High and low temperature test chamber	QCTC-A-058
10	Electronic all-purpose testing machine	QCTC-A-072
11	Electronic digital caliper	QCTC-B-090
12	Knock test box	QCTC-A-236
13	High precision haze meter	QCTC-A-239
14	Boiling box	QCTC-A-015
15	Constant temperature and humidity test chamber	QCTC-A-030
16	Radiation resistance detector	QCTC-A-024

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