



中国认可
国际互认
检测
TESTING
CNAS L2249

REPORT No.17-0365

TEST REPORT

PRODUCT PLYWOOD

COMPANY LINYI CONSMOS WOOD INDUSTRY CO., LTD.

CLASSIFYING ENTRUSTED TESTING

国家林业局人造板及其制品质量检验检测中心(南京)

南京林业大学木材及其制品测试中心

WOOD PRODUCTS QUALITY TEST & INSPECTION CENTER
OF STATE FORESTRY ADMINISTRATION (NANJING)

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由 扫描全能王 扫描创建

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TESTING REPORT

No.17-0365

5 PAGES No.1

Inspected unit	LINYI CONSMOS WOOD INDUSTRY CO., LTD		
Production unit	LINYI CONSMOS WOOD INDUSTRY CO., LTD		
Product name	Plywood	Trademark	_____
Product size	Thickness: 18mm	Testing classification	Entrusted testing
Grade	Acceptable part	Standard	EN314-1, EN314-2, EN 310 EN322, EN717-2, EN323
Batch No./ Production date	// 2024-4-17	Sample size	mm: 600×600×18 7pcs
Bonding class	/	Wood species	Poplar
Testing item	Moisture content, Density, Bonding quality, Modulus of elasticity in bending, Bending strength, formaldehyde release		
Conclusion	Required by LINYI CONSMOS WOOD INDUSTRY CO., LTD, according to the standard EN322, EN323, EN314-1, EN314-2, EN 310 and EN717-2, Wood Products Quality & Inspection Center of State Forestry Administration (Nanjing) tests its sending the plywood samples' Mechanical properties (Moisture content, Density, Bonding quality, Modulus of elasticity in bending, Bending strength) and formaldehyde release. Test values see in Page 2、Page3、Page4 and Page5. Testing unit(stamp): (南京) Issuing date: May 9, 2017		
Remarks	1. The production unit's name and trademark of the product are supplied by the inspected unit. 2. This report is only responsible for sending samples. 3. Bonding quality' details of pretreatments EN314-1 5.1.1: Immersion for 24 hours in water at (20±3)°C. EN314-1 5.1.2: Immersion for 6 hours in boiling water, followed by cooling in water at (20±3)°C for at least 1 hour to decrease temperature of test pieces to 20°C and EN314-1 5.1.4: Immersion for (72±1) hours in boiling water, followed by cooling in water at (20±3)°C for at least 1 hour to decrease temperature of test pieces to 20°C		

Approved by: 姜江波 Reviewed by: 梁星宇 Tested by: 曹伟高



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5 PAGES No.2

Inspected unit		LINYI CONSMOS WOOD INDUSTRY CO., LTD.		
Product name		Plywood	Sampling method	Sending
Product size		Thickness:18mm	Standard	EN314-1,EN314-2,EN310 EN322, EN717-2,EN 323
Testing date		April 24, 2024 TO May 9, 2024		
Testing item		Unit	Standard used	Tested value
Bonding quality (glueline 1)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.1)	1.19
	The standard deviation	—		0.18
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 2)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.1)	1.63
	The standard deviation	—		0.17
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 3)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.1)	1.40
	The standard deviation	—		0.28
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 4)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.1)	1.14
	The standard deviation	—		0.23
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 5)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.1)	1.79
	The standard deviation	—		0.27
	Mean apparent cohesive wood failure (W)	%		100



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5 PAGES No.3

Inspected unit		LINYI CONSMOS WOOD INDUSTRY CO., LTD.		
Product name		Plywood	Sampling method	Sending
Product size		Thickness:18mm	Standard	EN314-1,EN314-2,EN310 EN322, EN717-2,EN 323
Testing date		April 24, 2024: FO May 9, 2024		
Testing item		Unit	Standard used	Tested value
Bonding quality (glueline 1)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.2)	1.38
	The standard deviation	—		0.18
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 2)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.2)	1.41
	The standard deviation	—		0.31
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 3)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.2)	1.39
	The standard deviation	—		0.20
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 4)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.2)	1.36
	The standard deviation	—		0.17
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 5)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.2)	1.21
	The standard deviation	—		0.29
	Mean apparent cohesive wood failure (W)	%		100



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5 PAGES No.4

Inspected unit		LINYI CONSMOS WOOD INDUSTRY CO., LTD.		
Product name		Plywood	Sampling method	Sending
Product size		Thickness:18mm	Standard	EN314-1,EN314-2,EN310 EN322, EN717-2,EN 323
Testing date		April 24, 2024 TO May 9, 2024		
Testing item		Unit	Standard used	Tested value
Bonding quality (glueline 1)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.4)	1.10
	The standard deviation	--		0.18
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 2)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.4)	1.76
	The standard deviation	—		12
	Mean apparent cohesive wood failure (W)	%		75
Bonding quality (glueline 3)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.4)	1.25
	The standard deviation	—		0.38
	Mean apparent cohesive wood failure (W)	%		99
Bonding quality (glueline 4)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.4)	1.12
	The standard deviation	—		0.15
	Mean apparent cohesive wood failure (W)	%		100
Bonding quality (glueline 5)	Mean shear strength(f_v)	N/mm ²	EN 314 (pretreatments by EN314-1 5.1.4)	0.95
	The standard deviation	—		0.14
	Mean apparent cohesive wood failure (W)	%		90



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5 PAGES No.5

Inspected unit	LINYI CONSMOS WOOD INDUSTRY CO., LTD.				
Product name	Plywood	Sampling method	Sending		
Product size	Thickness:18mm	Standard	EN314-1,EN314-2,EN310 EN322, EN717-2,EN 323		
Testing date	April 24, 2024 TO May 9, 2024				
Testing item		Unit	Standard used	Tested value	
Bending strength	Longitudinal grain	N/mm ²	EN 310	Panel average	60.1
				Standard deviation	16.9
	Cross grain	N/mm ²		Panel average	32.9
				Standard deviation	4.6
Moisture content		%	EN322	Average: 5.8	
Density		kg/m ³	EN323	Average: 540	
Modulus of elasticity in bending	Longitudinal grain	N/mm ²	EN 310	Panel average	6377
				Standard deviation	1098.5
	Cross grain	N/mm ²		Panel average	3791
				Standard deviation	113.1
Formaldehyde release		mg/m ² h	EN717-2	Average: 1.64	
remarks	Moisture content (specimen dimension:50mm×50mm×18mm; number: 6) Density(specimen dimension:50mm×50mm×18mm; number: 6) Bending strength(specimen dimension: 410mm×50mm×18mm; number: 6 with Longitudinal grain fibers and 6 with Cross grain fibers) Bonding quality(specimen dimension: 100mm×25mm×18mm; 10 test pieces per glue line) Modulus of elasticity in bending(specimen dimension: 410mm×50mm×18mm; number: 6 with Longitudinal grain fibers and 6 with Cross grain fibers) Formaldehyde release (specimen dimension:400mm×50mm×18mm; number: 2)				



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