



中国认可
国际互认
检测
TESTING
CNAS L0227

No. TJA20191108-0126

INSPECTION REPORT

Sample Name: Plastic pallet

Applicant Company: Shandong Lingyue Packing Products Co.,Ltd

Test Type: Commission

China Packaging Research & Test Center

No.2 Haichuan Avenue Huanghai Rd. TEDA Tianjin China



LYPALLET.COM

DECLARE

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China Packaging Research & Test Center

TEST REPORT

No.TJA20191108-0126

Sample Name	Plastic pallet		
Test Type	Commission		
Applicant	Shandong Lingyue Packing Products Co.,Ltd		
Address	No.100 Lingong Road Comprehensive Free Trade Zone, Jiaozhou City, Shandong Province		
Applicant Rep.	Fan Lei		
Manufacturer	Shandong Lingyue Packing Products Co.,Ltd		
Model/Type	/		
Gross Weight	/	Net Weight	/
Sample (s) Quantity	6 unit	Sample Dimensions	1000mm×1000mm×150mm
Date of Application	2019/11/21	Date of Test	2019/11/28
Sample Description	Green plastic single-deck pallet, four-way blocks. The appearance of samples are normal.		
Test Standard	GB/T 4995-2014:General-purpose flat pallets for through transit of goods—Performance requirements and selection of tests GB/T 4996-2014:General-purpose flat pallets for through transit of goods-Test methods		
Test Item(s)	Bending tests; Forklift test; Stacking test; Corner drop test		
Note	Bending tests test pallet length direction and the rest test pallet width direction		

Edited by:



Checked by:



Approved by:



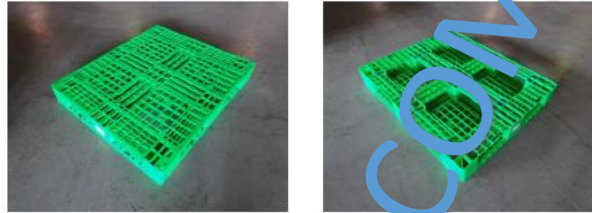
Date of Issue: 2019/12/10

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Check Samples before Testing

1. Samples appearance



2. Sample description: Green plastic single-deck pallet, four-way, 9 blocks. The appearance of samples are normal.

3. Temperature and Relative Humidity of Lab. (M.C.): 10%RH

Test result

No	Test Items	Samples No.	Standard request	Measured Value	Individual Judgment
1	Bending tests	1	/	2243kg	/
		2	$\leq 2\%L_1=21.00\text{mm}$	19.17mm	Pass
		Remaining deflection value	$\leq 0.7\%L_1=7.35\text{mm}$	2.39mm	
2	Forklifting tests	3	/	8383kg	/
		4	$\leq 20\text{mm}$	13mm	Pass
		Remaining deflection value	$\leq 7\text{mm}$	2mm	
3	Stacking test	5	/	9500kg	/
		6	/	6.15mm	Pass
		Remaining deflection value	/	3.64mm	
4	Corner drop test	6	$\leq 4\%$	0%	Pass
		6	No breakage or damage that limits the performance or functionality of the pallet	No breakage and damage that limits the performance and functionality of the pallet	

TEST REPORT

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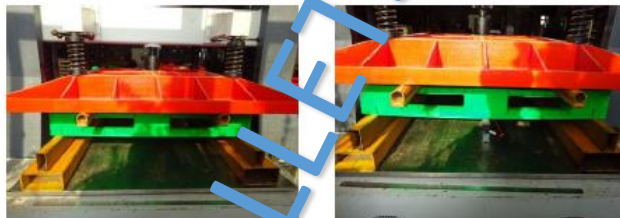
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Bending Tests

Sample No.	1,2
Sample Name	Plastic pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	24°C; 16%RH

1. Test Process

- 1.1 Place sample 1 top deck upward on two support applicators. Distance from inside of the support applicators to outside of the pallet is 70mm. The width across two support applicators is L_1 . Place load applicators on top deck. Test length direction.
- 1.2 Moving speed of the upper platen of compressive machine is 1.7mm/min.
- 1.3 Apply compressive load until breakage occur of the pallet or until reaching deflection value of $L_1 \times 6\%$, record the ultimate load U_1 .
- 1.4 Replacement sample 2. Repeat the testing process 1.1-1.3.
- 1.5 Gradually increase the test load to datum load ($1.5\%U_1$), record the deflection value, increase the test load to full test load ($50\%U_1$), record the deflection value, after 24h, record the load deflection value. Relaxation to datum load ($1.5\%U_1$), after 2h, record the deflection value.



2. Test Result

Sample 1: $U_1=24.5\text{kg}$;
 Sample 2: $50\%U_1=12.2\text{kg}$, $1.5\%U_1=34\text{kg}$, $L_1=1050\text{mm}$;
 The result is as follows:

Test item		Standard request	Maximum measured value	Individual judgment
Bending tests	Load deflection value	$\leq 2\%L_1=21.00\text{mm}$	19.17mm	Pass
	Remaining deflection value	$\leq 0.7\%L_1=7.35\text{mm}$	2.39mm	

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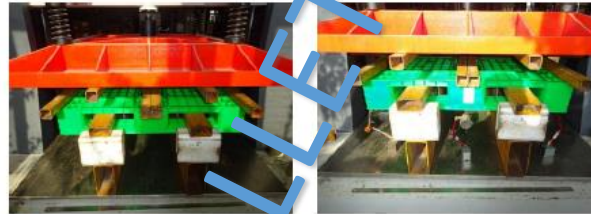
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Forklifting Tests

Sample No.	3,4
Sample Name	Plastic pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	28°C

1. Test Process

- 1.1 Place sample 3 onto the support the distance between the support is 570mm, and according to the demands place the pallet and load applicator. Test width direction.
- 1.2 Moving speed of the upper platen of compressive machine is 2.7mm/min.
- 1.3 Gradually increase the load, until breakage of one of the components of the sample. Record the ultimate load U_2 .
- 1.4 Replacement sample 4. Repeat the testing process 1.1-1.3.
- 1.5 Gradually increase the test load to datum load ($1.5\%U_2$), record the remaining deflection value, increasing load to full test load ($50\%U_2$), record the remaining deflection value, after 30 min, record the remaining deflection value; relax to datum load ($1.5\%U_2$), after 30 min, record the remaining deflection value.



2. Test Result

Sample 3: $U_2=8383\text{kg}$ Sample 4: $50\%U_2=1921\text{kg}$; $1.5\%U_2=126\text{kg}$;

The result is as follows:

Test item		Standard request	Maximum measured value	Individual judgment
Forklifting tests	Initial deflection value	$\leq 20\text{mm}$	13mm	Pass
	Remaining deflection value	$\leq 7\text{mm}$	2mm	

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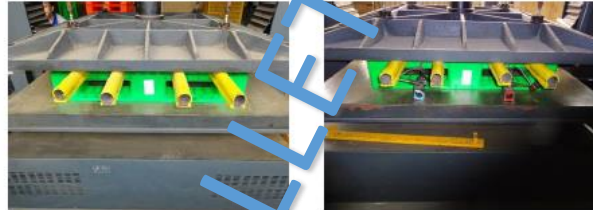
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Stacking Test

Sample No.	5,6
Sample Name	Plastic pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	23°C

1. Test Process

- 1.1 Place sample 5 top deck upward on the center of the lower platen of the compressive tester. The openings width across its test direction is L_2 . Place four load applicators on top deck. Test width direction.
- 1.2 Moving speed of the upper platen of compressive machine is 7mm/min.
- 1.3 Apply compressive load until breakage occur of the pallet or until reaching deflection value of $L_2 \times 6\%$, record the ultimate load U_3 .
- 1.4 Replacement sample 6. Repeat the testing process 1.1-1.3.
- 1.5 Gradually increase the test load to datum load ($1.5\%U_3$), record the deflection value, increase the test load to full test load ($50\%U_3$), record the deflection value, after 48h, record the load deflection value relaxation to datum load ($1.5\%U_3$), after 2h, record the deflection value.



2. Test Result

Sample 5: $U_3=9500\text{kg}$ Sample 6: $50\%U_3=150\text{kg}$, $1.5\%U_3=142\text{kg}$, $L_2=265\text{mm}$;

The result is as follows:

Test Item	Maximum measured value
Stacking Test	
Load deflection value	6.15mm
Remaining deflection value	3.64mm

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Corner drop test

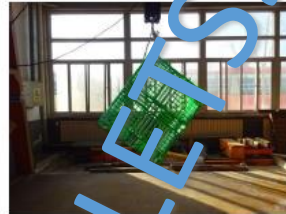
Sample No.	6
Sample Name	Plastic pallet
Test Standard	ISO 8611-1:2011 ; ISO 8611-2:2011
Environment	25℃

1. Test Process

1.1 The measure point A, B is at the end of the sample top deck diagonal, 50mm from the corner of the pallet, measure the distance y_1 between A and B.

1.2 According to the requirements of standard, lifting the corner of the pallet. Drop height: 500mm. Drop times: 3 times.

1.3. After 3 times drop, measure the distance y_2 between A and B.



2. Test Result

Test item	Standard request	Maximum measured value	Individual judgment
Corner drop test	Diagonal deformation rate	≤4%	Pass
	Breakage or damage	No breakage or damage that limits the performance or functionality of the pallet	

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Equipment

No.	Equipment	Manufactory	Model	Date of Calibration/ Verification	Calibration/ Verification Cycle
Y009	Shedding lifting hook drop tester	France SEREME	1500kg	2019.05.16	1 year
Y012	Dynamic Compressive Machine	France SEREME	100kN	2019.01.01	1 year
Y044	Electronic Compressive Machine	MTS SYSTEMS (CHINA)	CMT9105 BZ	2018.12.12	1 year

(End)