



中国认可
国际互认
检测
TESTING
CNAS L0227

No.TJA20191108-0008

INSPECTION REPORT

Sample Name: Moulded Pallet

Inspected Company: WUZHI THOYU NEW MATERIAL TECHNOLOGY CO.,LTD

Test Type: Commission

China Packaging Research & Test Center

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China Packaging Research & Test Center

TEST REPORT

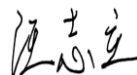
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Sample Name	Moulded Pallet		
Test Type	Commission		
Applicant	WUZHI THOYU NEW MATERIAL TECHNOLOGY CO.,LTD		
Address	NO. 175, YINGBIN ROAD, WUZHI COUNTY, JIAOZUO CITY, HENAN PROVINCE		
Applicant Rep.	FRANK		
Manufacturer	WUZHI THOYU NEW MATERIAL TECHNOLOGY CO.,LTD		
Model/Type	TY-2		
Gross Weight	22.2kg	Net Weight	/
Sample (s) Quantity	9 unit	Sample Dimensions	1200mm×1000mm×130mm
Date of Application	2019/03/04	Date of Test	2019/03/13
Sample Description	Molded pallet,non-reversible,four-way,9 blocks, the appearances 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.GB/T 17657-2013Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels.		
Test Item(s)	Bending tests, Forklifting tests, Stacking test, Corner drop test		
Note	Customer requirement: Test pallet length direction,Testing in a laboratory environment, not in a standard environment.		

Edited by:



Checked by:



Approved by:



Date of Issue: 2019/03/22

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Check Samples before Testing

1.Samples appearance



2.Sample description:Molded pallet, non-reversible, four-way, 9 blocks , the appearances of samples are normal.

3.Temperature and Relative Humidity of Lab: 22℃; 16% RH

Test result

No.	Test Items		Samples No.	Standard request	Measured Value	Individual Judgment
1	Bending tests	Ultimate load	1	/	1114kg	/
		Load deflection value	2	$\leq 2\%L_1=18.12\text{mm}$	16.12mm	Pass
		Remaining deflection value		$\leq 0.7\%L_1=6.34\text{mm}$	4.75mm	
2	Forklifting tests	Ultimate load	3	/	2463kg	/
		Load deflection value	4	$\leq 20\text{mm}$	12mm	Pass
		Remaining deflection value		$\leq 7\text{mm}$	1mm	
3	Stacking test	Ultimate load	5	/	9500kg	/
		Load deflection value	6	$\leq 2\%L_2=5.40\text{mm}$	5.24mm	Pass
		Remaining deflection value		$\leq 0.7\%L_2=1.89\text{mm}$	1.78mm	
4	Corner drop test	Diagonal deformation rate	7	$\leq 4\%$	0%	Pass
		Breakage or damage		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	

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Bending Tests

Sample No.	1,2
Sample Name	Moulded Pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	22°C ; 16% RH

1. Test Process

- 1.1 Place sample 1 top deck upward across length direction, on two support applicators. Distance from inside of the support applicators to outside of the pallet is 75mm. The width across two support applicators is L_1 . Place load applicators on top deck.
- 1.2 Moving speed of the upper platen of compressive machine is 12.7mm/min.
- 1.3 Apply compressive load until breakage occurs 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 1.1~1.2.
- 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 1h, record the deflection value.



2. Test Result

Sample 1: $U_1=1114\text{kg}$;

Sample 2: $50\%U_1=557\text{kg}$, $1.5\%U_1=17\text{kg}$, $L_1=906\text{mm}$;

the result is as follows:

Test item		Standard request (mm)	Maximum measured value (mm)	Individual judgment
Bending tests	Load deflection value	$\leq 2\%L_1=18.12$	16.12	Pass
	Remaining deflection value	$\leq 0.7\%L_1=6.34$	4.75	

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Forklifting Tests

Sample No.	3,4
Sample Name	Moulded Pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	23℃; 20% RH

1. Test Process

- 1.1 Place sample 3 onto the support across length direction, the distance between the support is 570mm, and according to the demands place the pallet and load applicator.
- 1.2 Moving speed of the upper platen of compressive machine is 12.7mm/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 1.1~1.2.
- 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 of ($50\%U_2$), record the remaining deflection value, after 30 min, record the load deflection value; relax to datum load ($1.5\%U_2$), after 30 min, record the remaining deflection value.



2. Test Result

Sample 3: $U_2=2463\text{kg}$;

Sample 4: $50\%U_2=1232\text{kg}$, $1.5\%U_2=37\text{kg}$;

the result is as follows:

Test item		Standard request (mm)	Maximum measured value (mm)	Individual judgment
Forklifting tests	Load deflection value	≤ 20	12	Pass
	Remaining deflection value	≤ 7	1	

TEST REPORT

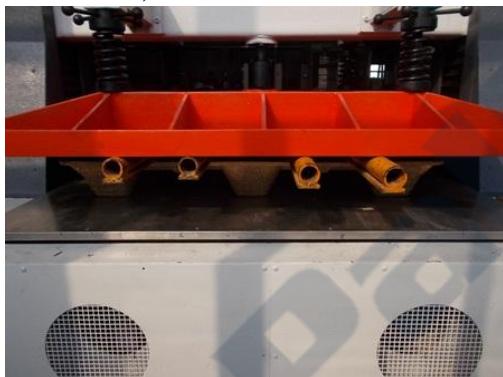
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Stacking Test

Sample No.	5,6
Sample Name	Moulded Pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	25℃; 36% RH

1. Test Process

- 1.1 Place sample 5 top deck upward across length direction, 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.
- 1.2 Moving speed of the upper platen of compressive machine is 12.7mm/min.
- 1.3 Apply compressive load until breakage occurs 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 1.1~1.2.
- 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 24h, record the load deflection value, relaxation to datum load ($1.5\%U_3$), after 1h, record the deflection value.



2. Test Result

Sample 5: $U_3=9500\text{kg}$;

Sample 6: $50\%U_3=4750\text{kg}$, $1.5\%U_3=142\text{kg}$, $L_2=270\text{mm}$;

the result is as follows:

Test item		Standard request (mm)	Maximum measured value (mm)	Individual judgment
Stacking Test	Load deflection value	$\leq 2\%L_2=5.40$	5.24	Pass
	Remaining deflection value	$\leq 0.7\%L_2=1.89$	1.78	

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Corner drop test

Sample No.	7
Sample Name	Moulded Pallet
Test Standard	GB/T 4995-2014; GB/T 4996-2014
Environment	25℃; 36% RH

1. Test Process

1.1 The measure point A, B is at the end of the sample 7 top deck diagonal, 50mm from the corner of the pallet, measure the distance (H) between A and B.

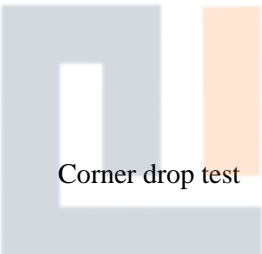
1.2 According to the requirements of standard, lifting the corner of the pallet. Drop height: 500mm. Drop times: 3 times.

1.3. After 3 times drop, measure the distance (H₁) between A and B.



2. Test Result

Sample7 :the result is as follows:

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	