

Test Report

No. SDHL1607013711PK Date: Sep.07, 2016 Page 1 of 14

The following information and sample(s) was / were submitted and identified on behalf of the client as:

Overall Test Result: PASS			
Vendor/Client: ZHONG SHAN SHI SONGLIN FURNITURE CO.LTD B BLOCK,JINLI INDUSTRIAL ZONEMSANXING ROAD,SANJIAO TOWN,ZHONGSHAN CITY,GUANGDONG PROV.,CHINA		Sample overview 	
GENERAL INFORMATION			
Buyer Name:	OFFICE DEPOT MAX	GCC Required:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Vendor Name:	ZHONG SHAN SHI SONGLIN FURNITURE CO.LTD		
Factory Name :	SONGLIN		
Vendor Email :	songlintw_marty@163.com;so nglintw_801@163.com	Factory ID#:	F01563
Dep. No.:	25	Brand Name:	REALSPACE
Country of Origin:	CHINA	Destination:	EUROPE
SAMPLE INFORMATION			
Sample Description:	COMM MESH BACK EXEC CHAIR		
SKU Number:	3374786	Style Number :	SL-B7
UPC Number:	/	VPC Number:	SL-B7
PO Number:	/		
Children Product:	<input type="checkbox"/> YES <input type="checkbox"/> NO		
TESTING INFORMATION			
Test Stage:	<input checked="" type="checkbox"/> PPT <input type="checkbox"/> ANNUAL <input type="checkbox"/> POST PURCHASE		
Test Requested:	<input type="checkbox"/> PRODUCT <input type="checkbox"/> PACKAGING REVIEW <input checked="" type="checkbox"/> TRANSIT TEST <input type="checkbox"/> OTHER TEST: _____		
Test Type:	<input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> RETEST Previous Report #: /		
Revised Report:	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Reason: /		
Protocol(s) Used:	OD-PK0002		
Sample Receiving Date:	Jul.27, 2016		
Testing Period:	Jul.27, 2016 TO Aug.01, 2016		
TESTING HISTORY			
Transit Testing:	Report #: SDHL1607013711PK	Date Issued: Aug.01, 2016	Result: Pass
Previous Reports (Any reports issued for this same item within the past 3 years):			
Report #	Date Issued	Result	Failure Description
/	/	/	/



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Sample as Received



Product as Received

Test Result Summary

Executive Summary:

Description of package:

Master container constructed of double wall corrugated board, glued joint, secured by pressure sensitive tape.

Result: Pass

Package: After performing the transit test, no visible damage was found on the package.

Product: After performing the transit test, no visible damage was found on the product.

Corrugated board: The burst strength test result and edgewise compressive strength test result met the client's requirement.

Test request, Test Method and Test Results Please refer to the following page(s).

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.

Peter Zhao
Approved signatory



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RESULT DETAILS:

See attached protocols: OD-PK0002-V2.0

Test Property	Test Method	Test Principle / Requirements	Result
SCOPE			
This protocol is applicable for individual packaged-product when prepared for shipment.			
LABELING			
Labeling	Visual	Over-packaged for shipment to the laboratory or repackaged in new packaging at the laboratory	Non-Labelled
PHYSICAL CHARACTERISTICS			
Dimensions - width	SGS-TM-HL-00111	Report overall width. Shall comply with any claims (-3%, +1%) If no claim, "Data" only.	C: / R:29"
Dimensions - depth	SGS-TM-HL-00111	Report overall depth. Shall comply with any claims (-3%, +1%) If no claim, "Data" only.	C: / R:23"
Dimensions - height	SGS-TM-HL-00111	Report overall height. Shall comply with any claims (-3%, +1%) If no claim, "Data" only.	C: / R:26-1/4"
Dimensions - thickness	SGS-TM-HL-00111	Report overall thickness. Shall comply with any claims (-3%, +1%) If no claim, "Data" only.	0.26"
Overall weight	SGS-TM-HL-00143	Report overall weight. Shall comply with any claims. (-2%, +2%) If no claim, "Data" only.	C: / R:69.05 lbs
Material description	Visual	Report material. Shall comply with any claims. (Master Carton must be construction of Double Wall corrugated board (double E flute is no recommended)	No claim Actual: Double Wall Corrugated Board
CONSTRUCTION & WORKMANSHIP			
Over-packaging	Visual	Shall have no major defects / no break in of the over-packaging.	No over packaging
Packaged product	Visual	Shall have no major defects / no break in of the packaging. The packaged product should not be opened prior to testing unless there is a sign of damage such as rattling. In this case, the package can be opened and the item inspected for damage. Damaged product will not be tested. Inner packaging must not be disturbed in a manner to compromise test results after resealing the package.	Pass
PERFORMANCE			
Test Procedure 2A			
Atmospheric Preconditioning	ISTA 2A 2011	The packaged-product should be stored prior to climate conditioning at 23±1°C, 50% RH ± 5 for 6 hours.	Pass



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Test Property	Test Method	Test Principle / Requirements	Result
Atmospheric Conditioning	ISTA 2A 2011	Atmospheric conditioning environment default is 23±1 °C, 50% RH ± 5 for 72 hours. Test can be performed under different environment base on client's request. (see APPENDIX 1)	Pass
Compression	ISTA 2A 2011 mod.	Report the test method used. (AR/ AH/ Deadweight AH) AR test load (lbf) = [Wt x (S-1) x F] x 1.4 AH / Deadweight AH test load (lbf) = Wt x (S-1) x F Where: Wt = Total weight of the PKG S = 2.6m ÷ packaged-product height F = Compensation factor, default is 5.	Pass AH Test load: 1036 lbs
First Vibration	ISTA 2A 2011	No major defects after 14,200 vibratory impacts	Pass Test Frequency: 244 c.p.m Test Duration: 59 minutes
Drop	ISTA 2A 2011	No major defect after 10 drops from a specific height in a specific sequence as described in ISTA 2A. Test drop height varies with weight of packaged product.	Pass Drop Height: 20"
Second Vibration	ISTA 2A 2011	To perform 14,200 vibratory impacts	Pass Test Frequency: 244 c.p.m Test Duration: 59 minutes
Test Procedure 2B			
Atmospheric Preconditioning	ISTA 2B 2011	The packaged-product should be stored prior to climate conditioning at 23±1 °C, 50% RH ± 5 for 6 hours.	Not Applicable
Atmospheric Conditioning	ISTA 2B 2011	Atmospheric conditioning environment default is 23±1 °C, 50% RH ± 5 for 72 hours. Test can be performed under different environment base on client's request. (see APPENDIX 1)	Not Applicable
Compression	ISTA 2B 2011 mod.	Report the test method used. (AR/ AH/ Deadweight AH) AR test load (lbf) = [Wt x (S-1) x F] x 1.4 AH / Deadweight AH test load (lbf) = Wt x (S-1) x F Where: Wt = Total weight of the PKG S = 2.6m ÷ packaged-product height F = Compensation factor, default is 5.	Not Applicable



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Test Property	Test Method	Test Principle / Requirements	Result
First Vibration	ISTA 2B 2011	No major defects after 11,800 vibratory impacts	Not Applicable
Drop	ISTA 2B 2011	No major defect after 6 drops from 6in (150mm) in a specific sequence as described in ISTA 2B.	Not Applicable
Second Vibration	ISTA 2B 2011	To perform 11,800 vibratory impacts	Not Applicable
OTHERS			
*Pallet - Compression test - test 1 pallet	OD requirement	The pallet item should be stored in ambient conditions 38°C, 85%RH for at least 24 hours prior to testing. Pallet shall withstand 1 ton distribute load for 1 hour. No breakage or structure damage occurred after loading.	NA No pallet
*Pallet - Landing Test - test another pallet	OD requirement	The pallet item should be stored in ambient conditions 38°C, 85%RH for at least 24 hours prior to testing. Load the pallet with 4 times the package weight or claimed load, and lift up the pallet with forklift truck, loading weight remain 1 hour. No breakage or structure damage occurred after loading.	NA No pallet
Corrugated board strength – Bursting Strength Test	TAPPI T810	Report the average bursting strength (lb/in ²) of the corrugated board. Pass / Fail rating needed: BST>200lb/sqin NOTE: If master carton is too small to take the full number of readings, take the maximum number of readings possible and report the average.	Pass 339 lbs/in ²
Corrugated board strength – Edgewise compressive strength test	TAPPI T811	Report the average maximum load per unit width (lbf/in). Pass / Fail rating needed: ECT>42lbf/in NOTE: If master carton is too small to take the full number of readings, take the maximum number of readings possible and report the average.	Pass 75.4 lb/in
Product functionality	Visual	All tested packaged products shall be fully functional after testing of packaging (i.e. there shall be no product failures as a result of transit testing.)	Pass
Hazards	Visual	Staples are not permitted in the construction of the carton except along the bottom or along the manufacturer's edge only. Steel strapping is not permitted. Plastic strapping is permitted but the securing device/method (i.e. buckle) must not contain or create a sharp point or edge.	Pass



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Remark:

1. NA – Not applicable.
2. NT – Not test as per the client's requirement.

APPENDIX 1

Anticipated Conditions	Time in Hours	Temperature in °C ±2°C (°F ±4°F)	Humidity in %
Extreme Cold, Uncontrolled RH	72	-29°C (-20°F)	uncontrolled RH
Cold, Humid	72	5°C (40°F)	85% RH ±5%
Controlled Conditions	72	23°C (73°F)	50% RH ±5%
Hot, Humid	72	38°C (100°F)	85% RH ±5%
Hot, Humid then Extreme Heat, Moderate RH:	72 then 6	38°C (100°F) then 60°C (140°F)	85% RH ±5% then 30% RH ±5%
Elevated Temperature, Uncontrolled RH	72	50°C (120°F)	uncontrolled RH
Extreme Heat, Dry	72	60°C (140°F)	15% RH +/- 5%
Severe Cold, Uncontrolled RH	72	-18°C (0°F)	uncontrolled RH



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Vibration test info

1A	The chart below shows example Test Duration's calculated for several frequencies:		
	CPM	Hz	Test Duration in Minutes
	150	2.5	95
	180	3.0	79
	210	3.5	68
	240	4.0	60
	270	4.5	53
	300	5.0	48
1B	CPM	Hz	Test Duration in Minutes
	150	2.5	79
	180	3.0	66
	210	3.5	57
	240	4.0	50
	270	4.5	44
	300	5.0	40

Impact drop height table

Packaged-Product Weight		Drop Height		Impact Velocity			
Equal to or greater than		But Less than		Free Fall		Incline or Horizontal	
lb	kg	lb	kg	ln	mm	ft/s	m/s
0	0	21	10	38	970	14	4.4
21	10	41	19	32	810	13	4.0
41	19	61	28	26	660	12	3.6
61	28	100	45	20	510	10	3.2
100	45	150	68	12	310	8	2.5



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Impact drop sequence

1 A	1	Corner	most fragile face-3 corner, if not known, test 2-3-5
	2	Edge	shortest edge radiating from the corner tested
	3	Edge	next longest edge radiating from the corner tested
	4	Edge	longest edge radiating from the corner tested
	5	Face	one of the smallest faces
	6	Face	opposite small face
	7	Face	one of the medium faces
	8	Face	opposite medium face
	9	Face	one of the largest faces
	10	Face	opposite large face
1 B	1	Face	one of the smallest faces
	2	Face	opposite small face
	3	Face	one of the medium faces
	4	Face	opposite medium face
	5	Face	one of the largest faces
	6	Face	opposite large face



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Impact drop sequence

1 A	1	Corner	most fragile face-3 corner, if not known, test 2-3-5
	2	Edge	shortest edge radiating from the corner tested
	3	Edge	next longest edge radiating from the corner tested
	4	Edge	longest edge radiating from the corner tested
	5	Face	one of the smallest faces
	6	Face	opposite small face
	7	Face	one of the medium faces
	8	Face	opposite medium face
	9	Face	one of the largest faces
	10	Face	opposite large face
1 B	1	Face	one of the smallest faces
	2	Face	opposite small face
	3	Face	one of the medium faces
	4	Face	opposite medium face
	5	Face	one of the largest faces
	6	Face	opposite large face

Packaged-Product Weight		Drop Height		Impact Velocity			
Equal to or greater than		But Less than		Free Fall		Incline or Horizontal	
lb	kg	lb	kg	in.	mm	ft/s	m/s
0	0	21	10	30	760	13	3.9
21	10	41	19	24	610	11	3.5
41	19	61	28	18	460	10	3.0
61	28	100	45	12	310	8.0	2.5
100	45	150	68	8	200	6.6	2.0



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Test Report

No. SDHL1607013711PK

Date: Sep.07, 2016

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Test Result 1:

Bursting Strength of Corrugated Board (TAPPI T 810 om-11)

General Information:

Number of Tested Specimen : 20 pcs
 Style of Specimen : Double Wall Corrugated Board
 Dimensions of Specimen : 6 inches × 6 inches
 Atmospheric Conditioning : Temperature: 23±1 °C; Humidity: 50±2%RH
 Test Equipment : Mullen Bursting Tester; Model: AH; No.: SD-HG-E009
 Client's Requirement : >200 lbs/in²
 Conclusion : Pass. The test result met the client's requirement

Test Result: The average bursting strength is: 339 lbs/in²

Specimen No.	From Outside to Inside (lbs/in ²)	Double pop (Y/N)	Specimen No.	From Inside to Outside (lbs/in ²)	Double pop (Y/N)
#1	315	N	#11	335	N
#2	323	N	#12	340	N
#3	306	N	#13	365	N
#4	375	N	#14	338	N
#5	380	N	#15	295	N
#6	360	N	#16	358	N
#7	292	N	#17	300	N
#8	358	N	#18	342	N
#9	340	N	#19	350	N
#10	365	N	#20	339	N
Average	339				



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Test Result 2:

Edgewise Compressive Strength of Corrugated Fiberboard (Short Column Test) (TAPPI T 811 om-11)

General Information:

Number of Tested Specimen : 10 pcs
 Style of Specimen : Double Wall Corrugated Board
 Dimensions of Specimen : 2 inches × 2 inches
 Atmospheric Conditioning : Temperature: 23±1 °C; Humidity: 50±2%RH
 Test Equipment : Universal Test Machine, Model: DCP-KY3000, No.: SD-HG-E037
 Client's Requirement : > 42 lbs/in
 Conclusion : Pass. The test result met the client's requirement

Test Result: The average edgewise compressive strength is: 75.4 lbs/in

Specimen No.	Edgewise Compressive Strength (lbs/in)
#1	77.7
#2	76.9
#3	74.0
#4	81.7
#5	72.2
#6	71.5
#7	75.0
#8	71.9
#9	75.6
#10	77.6
Average	75.4

Remark: The date of the burst strength test and edgewise compressive strength test are extracted from the test report number SDHL1607013710PK.



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Photo Appendix



After Test



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*** End of Report***



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