



2087350568

OMX-2019-V1.0

1 YEAR

24114806

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Vendor/Client:

ZHONGSHAN SHI SONGLIN FURNITURE CO., LTD B BLOCK, JINLI INDUSTRIAL ZONE, NO.105, SANXING RD.SALIANG VILLAGE, SANIJIAO TOWN, ZHONGSHAN CITY, GUANGDONG PROV., CHINA 528400

PASS

PO Number:

Expiry Date:

SKU Number:

Protocol Number:

Sample Description: COMM LEATHER EXECF CHAIR, BLACK COC REQUIRED Yes

Vendor Name: ZHONGSHAN SHI SONGLIN Buyer: OFFICE MAX

FURNITURE CO., LTD

Manufacturer Name: ZHONGSHAN SHI SONGLIN Barcode Number: 011491067687

FURNITURE CO., LTD

Country of Origin: CHINA
Destination: USA
Style No: OM06768
Testing Type: Initial Test
Testing Items: Protocol Test

Sample Receiving Date: Jun.27, 2013; Aug.13, 2013 **Testing Period:** Jun.27, 2013 to Aug.13, 2013

Retest No

RESULT: PASS X FAIL

SUMMARY:

When tested as specified, the submitted sample said to be "COMM LEATHER EXECF CHAIR, BLACK" <u>fulfill</u> the requirement(s) in Protocol No.OMX-2019 revision No.1.0.

The overall rating was based on those tests conducted.

Test Requested, Test Method and Test Results:

Please refer to the following page(s).

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

Bill Wang

Approved signatory





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RESULT DETAILS:

Test Conducted: Office Max Protocol for Commercial Office Chairs (Protocol No.: OMX-2019-V1.0)

Test Property	Test Method	Test Principle / Requirements	Results
		r, accent chair, drafting stool, massage chair, wh	
commercial office use.	phicasic for the entire chia	in, account criain, arailing croot, maccage criain, w	morraro mitoriada for
	e are not the applicable US	and Canada standards, SGS have chosen the r	nost relevant
		nd performance. For undated references, the lat	
referenced document (inclu			
SUPPLEMENT PROTO	COLS		
* Children's Product	Applicable sections	Product to be tested against all applicable	
(Non-toys)	from SGS Protocol	requirements of this protocol	N/A
	OMX-1015		
		uired if testing to 1 or more supplemental protoco	l is necessary.
		otocol(s) for additional information.	
REGULATORY REQUIR	KEMENIS		
US			
* CA Prop 65	Applicable Section from	All samples shall be reviewed against the	DACC
	SGS California	requirements of California Proposition 65 to	PASS
	Proposition 65 Master File	determine if additional testing or labeling is required.	See test results 1
* Lead Content In Paint	ASTM E 1645/1613	16 CFR 1303:	
Or Other Similar Surface	ASTIVIE 1045/1015	Lead content: <0.009% by weight	PASS
Coating Materials		Load contont: 20.00070 by Worght	See test results 1
* Toxics in Packaging	EDA 0050D/0050/0000	The total content of Pb+Hg+Cd+Cr(VI) in	
Clearing House	EPA 3050B/3052/3060	packaging and packaging components shall	NI/T
Legislation (For		comply with TPCH legislation and not	N/T
Packaging Material Only)		exceed 100mg/kg.	
*Flammability	CA. Technical Bulletin	Must comply with regulations.	PASS
	117		See test results 2
Canada			
N/A			
LABELING			
OMX Lingual	Client Specification	Canada: English and French must be	
Requirement		presented for warranty, warranty registration	
		cards, and warning and assembly	
		instructions.	
		United States: English and Spanish must be	PASS
		presented for warranty, warranty registration	
		cards, and warning and assembly instructions.	
		Note: Non-private items are not required to	
		have Spanish.	





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Test Property	Test Method	Test Principle / Requirements	Results
Plastic Bag Suffocation Warning	Client's Specification	If plastic bags with a diameter of 5 inches or greater (measured with bag laid flat) and thickness is an average less than one mil, the following warning statement (or practical equivalents) must be printed in English, French or/ and Spanish regarding to the country of destination. All languages must be in the same font size, with equal presentation. "WARNING: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or play pens. This bag is not a toy." The warnings shall be printed in an appropriate font size such that they are clearly visible and readable. Note: For Canada, the bag shall be made from film that is at least 0.75 mil thick.	PASS Only soft-copy was provided
Labeling: UPC	Visual Inspection & Scan Tester	Shall be present and scannable.	PASS
Verify Label Claims (If Claimed)	Visual Check/Actual use	All designs and features must conform to actual claim. Note: Composition verification is not required.	PASS
US			
One Time Use Products Fair Packaging and Labeling Act OR All Other Products Uniform Packaging and Labeling Regulations	F.P. & L. Act (16 CFR 500) or, NIST Uniform Laws and Regulations Handbook 130	Should be legibly and durably marked with the following information: Manufacturer, Packer, or Distributor's Name & Address (City, State & Zip) must be visible at point of purchase Product identification Net quantity of the contents shall be expressed in terms of weight or mass, measure, numerical, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units) Note: Per client's specification, this test will be reported as information only if product identification is not provided	PASS
Country of Origin Marking	Customs Regulations 19 CFR Part 134 / Section 304 of the Tariff Act of 1930, as amended (19 USC 1304)	For product imported into the United States (Unless excepted) shall be marked in a conspicuous place as legibly, indelibly, and permanently as the nature of the article (or container) will permit, in such a manner as to indicate to the ultimate purchaser in the United States the English name of the country of origin of the article. It shall be visible at point of purchase.	PASS





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Test Property	Test Method	Test Principle / Requirements	Results
Certification of Solid Wood Packing Material Exported from the PRC, including Hong Kong	7 CFR 319.40-3	Any merchandise accompanied by solid wood packing material exported to the U.S. must meet the following requirements: The wood packaging material must be marked in a visible location on each article, preferably on at least two opposite sides of the article, with a legible and permanent mark that indicates that the article meets the requirements of this paragraph. The mark must be approved by the International Plant Protection Convention in its International Standards for Phytosanitary Measures to certify that wood packaging material has been subjected to an approved measure, and must include a unique graphic symbol, the ISO two-letter country code for the country that produced the wood packaging material, a unique number assigned by the national plant protection agency of that country to the producer of the wood packaging material, and an abbreviation disclosing the type of treatment (e.g., HT for heat treatment or MB for methyl bromide fumigation). The currently approved format for the mark is as follows, where XX would be replaced by the country code, 000 by the producer number, and YY by the treatment type (HT or MB). See example below. Exemptions: WPM made entirely of manufactured wood material (e.g. particle board, plywood, oriented strand board), wine and whiskey barrels, or WPM made entirely of thin pieces of wood, (6mm thickness or less) is exempted from the treatment and marking requirements. WPM made of Canadian origin wood is also exempted from the treatment sund marking requirements. WPM made of Canadian origin wood is also exempted from the treatment sund marking requirements. Informational purposes only. Verified only at time of inspection as applicable.	N/A





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Test Property	Test Method	Test Principle / Requirements	Results
Interpretations of Magnuson-Moss Warranty Act	16 CFR 701	If a warranty is included with the product, the warranty must comply with regulation. 1. As a warrantor, you must designate, or title, your written warranty as either "full" or "limited." 2. As a warrantor, you must state certain specified information about the coverage of your warranty in a single, clear, and easy-to-read document: a. What does the warranty cover/not cover? b. What is the period of coverage? c. What will you do to correct problems? d. How can the customer get warranty service? e. How will state law affect your customer's rights under the warranty? Acceptable boilerplate for part e: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.	PASS
California Proposition 65	Title 22, Sec. 12601, Article 6 California Code of Regulations	The statute states that no person in the course of doing business shall knowingly and intentionally expose any individual to a chemical known to the state (California) to cause cancer or reproductive toxicity without first giving a clear and reasonable warning. OEHHA has established safe harbor levels (levels of exposure that trigger the warning requirement) for some, but not all, listed chemicals. When applicable the consumer product must carry a warning label that must comply with Title 22, Article 6 of the Regulation, Clear and Reasonable Warnings. This is for information only; compliance to the California Proposition 65 has not been verified unless expressly stated herein.	N/A





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Test Property	Test Method	Test Principle / Requirements	Results
Declaration and Labeling Requirements for Fabricators (CARB requirement for Composite Wood Products) Note: Fabricator is anyone including individuals and/or companies that use composite wood products to make finished goods such as furniture, cabinets, doors, etc.	Title 17, CA Code of Regulations, Section 93120.7(d) Fabricator Label Requirements	Declaration and label review is only required if Composite Wood(HWPW-VC,HWPW-CC,PB,MDF,Thin-MDF) is present in the sample	N/A

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| 15,1⁴Bulding.European Industrial Part.No.1 Shurtheran Road, No.1 Shurtheran Road, N





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Pennsylvania: Bedding & Upholstery Uniform Registry Number	State Bedding Laws / CA Home Furnishings and Thermal Insulation Act	Must be included if it contains filling material. Label must comply with the label format. The label shall be securely affixed to the article in a location which is clearly visible to the consumer. Vendor must submit the documentation so that verify whether the product has been registered in the following five states: California, Utah, Pennsylvania, Virginia and Ohio, as well check the effective date of the license. The Commonwealth approves and recognizes the uniform registry number and will accept the registration number issued by another state if the registrant so desires, and if such registration. This policy of uniform registration. This policy is intended to benefit the registrant by requiring but one registration to be imprinted on the law labels used, regardless of where the merchandise may be shipped. The registration number shall be preceded by the name of the state, which may be abbreviated, issuing	PASS Only soft-copy was provided
Upholstery Uniform Registry Number		recognizes the uniform registry number and will accept the registration number issued by another state if the registrant so desires, and if such registration follows the policy of uniform registration. This policy is intended to benefit the registrant by requiring but one registration to be imprinted on the law labels used, regardless of where the merchandise may be shipped. The registration number shall be preceded by the name of the state, which may be abbreviated, issuing	
Canada	Title 34 Pa. Code, Sec. 47.32	registration number, and if the factory is located in another state than that issuing the registration number, then the name of the state in which the factory is located shall follow the registration number in parenthesis. The Commonwealth will accept the permit number issued by another state if the applicant so desires and if approval is granted and a Commonwealth sterilization or disinfection permit is issued to applicant bearing the number. Products include mattresses, pillows, bolsters, feather beds, and other filled bedding, cushions, upholstered furniture and bulk materials intended for use in such products intended for sale or lease. Report the state and the registration number. The registration number is not verified. If the label law does not include both the state and the registration number then the sample shall be reported as fail.	PASS





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Test Property	Test Method	Test Principle / Requirements	Results
PHYSICAL CHARACTE	RISTICS		
Total Weight	Measurement	+/- 5% of labeled claim (lbs and grams or kg). If the sample has no labeled claim then the result of this test is reported for reference only; the result is not rated.	No claim; Actual: 48.72 lbs (22.10 kg)
Dimensions (L x W x H): Overall	Measurement	Report the result. Sample must be +/- 5% of labeled claim (inches and cm or m). If the sample has no labeled claim then the result of this test is reported for reference only; the result is not rated.	No claim: Actual: 28-3/4"-31" L×26- 1/4" -28"W×37- 1/2"-43-3/4" H
Type: Material	Visual Inspection	Material of the sample shall match label claimed. If no labeled claim is made, then the report the material and the result of this test is reported for reference only; the result is not rated. Not all materials can be verified without additional testing. Report materials that are not able to be verified.	No claim; Actual: Plastic + Metal + Leather
Color	Visual Inspection	Color of the sample shall match label claimed. If no labeled claim is made, then report the color, and the result of this test is reported for reference only; the result is not rated.	PASS Claim: Black Actual: Black
CONSTRUCTION QUA			
Workmanship	Visual Inspection	Sample shall be free of major cosmetic defects, which may impact customer satisfaction with the product. Sample is checked for workmanship in "as received" condition.	PASS
Parts Inventory	Actual use	All parts and components required to complete the assembly and to operate the unit as intended must be present. Report the actual components within a set, note any discrepancies. If no inventory list is supplied with the product, attempt to assemble the product and report any observed missing parts. Inability to assemble and operate the product will be reported as a failure.	PASS
US		•	
Sharp Points	16 CFR 1500.48 (d) (Modified)	Test samples shall have no accessible hazardous and nonfunctional sharp points as received or after use and abuse testing. Modified Application: "as received only".	PASS
Sharp Edges	16 CFR 1500.49 (d) (Modified)	Test samples shall have no accessible hazardous and nonfunctional sharp edges as received or after use and abuse testing. Modified Application: "as received only."	PASS
Canada			
N/A			





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Test Property	Test Method	Test Principle / Requirements	Results
PERFORMANCE TEST			
Adhesive Performance for Removable Label	Client's requirements	The purpose of this procedure is to verify either the removable labels do not peel, or not leave residue or deformation (coating or surface puckering) to the sample, and do not cause damage to printing on the sample. Report as PASS if the removable labels do not peel, or do not leave residue or deformation (coating or surface puckering) on any of the samples, and do not cause damage to printing on the product. Report as FAIL if the removable labels peel, leaves residue or deformation (coating or surface puckering) to any samples, or causes damage to printing on any of the product.	N/A
Performance Test	Actual use	The purpose of this procedure is to verify that the product performance as intended, and meets all verifiable labeled claims. This method applies to the basic functions of all products, and to products that bear labeled claims that are verifiable by reasonable means. Report sample as PASS if the product performs as intended, and meets all verifiable labeled claims. Report sample as FAIL if the product does not perform as intended, or meet all verifiable labeled claims. Notes: 1) When reviews products for safety, consideration is given to reasonably foreseeable misuse of the product. However from a practical standpoint, it must be recognized that use of a product in ways that are outside of its intended application or that are imprudent in any way are beyond the scope of the test program. 2) Normally, a product is tested to verify all labeled claims. However, where lack of appropriate test equipment or program details limit the laboratory ability to test all claims, the laboratory will either modify tests with existing equipment, subcontract specific tests to an approved subcontractor or not verify all labeled claims. 3) List all claims that were not verified.	PASS
Finger Entrapment (Only applicable those products intended for children/teen less than 14 years of age)	In – house method	If such clearances admit ¼ inch diameter rod, they shall also admit a ½ inch diameter rod in order to prevent the trapping of fingers. The clearances shall be tested during normal use and during the process of storage.	N/A





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Test Property	Test Method	Test Principle / Requirements	Results
Moisture Content for Solid Wood Products	In house method	After placing the sample in a testing laboratory atmosphere for 48 hours, use a calibrated moisture meter, take 3 readings from different location on the sample, and calculate the average moisture content. OfficeMax requirement: Shall be less than 14%. As applicable to samples containing wood.	N/A
High Humidity & High Temperature Test	In – house method	The purpose of this procedure is to verify that a product, after exposure to heat and high humidity for a specified time period, continues to perform its intended function and remains cosmetically acceptable: 50C (122F) and 80% Relative Humidity for 24 hours. Checking shall be done after remove the sample out the chamber and place the room temperature (23±2 C) for 2 hours. Note: The test can be conducted on the components if the sample is so large that it can't be placed into the chamber.	PASS
Stalled Rotor Test (Only applicable for massage chair)	In House Method	One of the massager's motor is taken for this specific test. It's motor shall be stalled for 30 seconds. The motor shall not become a fire hazard.	N/A
Switch On-Off (Only for massage chair)	In House Method	Should not have abnormal condition occurred during 100 On-Off cycles.	N/A
*Resistance To Corrosion Metal Parts (Only requested by OMX)	ASTM B117	After 24 hours in 1% salt spray (fog), there shall be no signs of major corrosion.	N/R
*Headrest Static Load Test (If applicable)	In House Method	Apply a backward force of 200 N (45 lbs) to the center of headrest, using a loading pad 100 mm in diameter, for 1 min. No loss of serviceability after tested.	N/A
*Adjusting and locking devices, e.g. Lumbar adjusting, Arm adjusting, seat adjusting, back adjusting, headrest adjusting etc. (If applicable)	Actual use	Movable and adjustable parts shall be so made that injuries are avoided, and inadvertent separation of parts is impossible. Adjustment controls shall be easily adjusted by the occupant from the seated position. The adjustable devices shall be no loss of serviceability after actual use of 100 cycles according to instruction.	PASS
* Adhesion Test by 3M Transparent Tape 600 (For Paint, Coating and surface decorated) – If applicable	ASTM D3359 (Mod.)	Using 100-grid test method, each grid is 1 mm x 1 mm. after the test, no more than 10 grids of painting, powder coating or surface decorated are detached.	PASS





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Test Property	Test Method	Test Principle / Requirements	Results
Commercial Office Cha			
		hairs claimed as commercial office use, so ti	he correspondina
		Max based on the tests of ANSI BIFMA X5.	
Back Strength Test - Static	ANSI/BIFMA	No loss of serviceability when 979 N (220	
-Type I (Functional Load)	X5.1 -2011 Clause 5	lbs.) is applied for 1 min. Applied 90° to the	PASS
,		back at 16 in. above the seat.	
Back Strength Test –	ANSI/BIFMA	No sudden and major change in the	
Static – Type I (Proof Load)	X5.1 -2011 Clause 5	structural integrity (loss of serviceability is	
		acceptable) when 1467 N (330 lbs.) is	PASS
		applied for 1 min. Applied 90° to the back at	
B 1 0: # T :	ANIOL/DIENAA	16 in. above the seat.	
Back Strength Test –	ANSI/BIFMA	No loss of serviceability when 734 N (165	DACC
Static – Type II & III	X5.1 -2011 Clause 6	lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.	PASS
(Functional Load) Back Strength Test –	ANSI/BIFMA	No sudden and major change in the structural	
Static – Type II & III	X5.1 -2002 Clause 6	integrity (loss of serviceability is acceptable)	
(Proof Load)	70.1 2002 Gladac 0	when 1223 N (275lbs.) is applied for 1 min.	PASS
(11001 2000)		Applied 90° to the back at 16 in. above the	17100
		seat.	
Base Test – Static	ANSI/BIFMA	No sudden and major change in the	
	X5.1 -2011 Clause 7	structural integrity under 12210 N (2750 lbs.)	
		compression for 1 min. The weight is then	PASS
		removed and reapplied for 1 min. The center	17100
		column may not touch the test platform	
Draw Toot Dimensia	ANSI/BIFMA	during load applications.	
Drop Test – Dynamic (Functional Load)	X5.1 -2011 Clause 8	No loss of serviceability when 112 kg (248 lbs.) weight free falls from 6 in height to the	PASS
(Functional Load)	75.1 -2011 Glause 6	center of the seat.	PASS
Drop Test – Dynamic	ANSI/BIFMA	No sudden and major change in the	
(Proof Load)	X5.1 -2011 Clause 8	structural integrity (loss of serviceability is	
(7.0 20 0.0000 0	acceptable) when 150kg (330 lbs.) weight	PASS
		free falls from 6 in height to the center of the	
		seat.	
Swivel Test – Cyclic	ANSI/BIFMA	No loss of serviceability after 60,000 cycles	
	X5.1 -2011 Clause 9	of rotation (360°) under a 124 kg (275 lbs.)	
		load on the seat at its max. height. Seat shall	PASS
		then withstand another 60,000 cycles of	17100
		rotation at its lowest seating position. Total	
Tilt Mechanism Test –	ANSI/BIFMA	120,000 cycles. No loss of serviceability after 300,000 cycles	
Cyclic – Type I & II	X5.1 -2011 Clause 10	under a 112 kg (248 lbs.) load to the center	PASS
2,500 1,501 0.11	7.5.1 2011 Olduso 10	of the seat	1 /100
Seat Impact Test – Cyclic	ANSI/BIFMA	No loss of serviceability in 100,000 cycles	
	X5.1 -2011 Clause	impact. A weight of 63 kg (138 lbs.) free falls	PASS
	11.1	onto the seat from 1.2 in. height.	
Front Corner Load Ease	ANSI/BIFMA	No loss of serviceability after load each seat	
Test - Cyclic - Off	X5.1 -2011 Clause 11.2	front corner with 807 N (182 lbs.) for 20,000	
Center		cycles, total 40,000 cycles.	PASS
		Note: this test is done after "Impact test" on	
		the same sample.	





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Test Property	Test Method	Test Principle / Requirements	Results
Stability Test - Rear	ANSI/BIFMA	Load the chair with 6 disks, apply a horizontal	
Stability for Type III	X5.1 -2011 Clause	force to the highest disk, The location of the	
Chairs	12.3.1	force application is 6 mm (0.25 in.) from the	
		top of the disk.	
		For chairs with seat height less than 710 mm	
		(28.0 in.), calculate the force as follows:	
		• F = 0.1964 (1195 − H) Newton.	PASS
		H is the seat height in mm.	F=130N
		• [F = 1.1 (47 – H) pounds force.].	
		H is the seat height in inches.	
		For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N	
		(20.9 lbf.) shall be applied.	
		The chair shall not tip over.	
Stability Test - Rear	ANSI/BIFMA	Load the chair with 13 disks, place the first	
Stability for Type I and II	X5.1 -2011 Clause	disk on the seat so it touches the support	PASS
Chairs	12.3.2	fixture. The chair shall not tip over.	17.00
Stability Test – Front	ANSI/BIFMA	The chair is obstructed with a 13mm (½ in.)	
Stability	X5.1 -2011 Clause 12.4	obstruction to the chair casters/legs. A	
,		downward load of 600N (135 lbs.) is centered	
		60mm (2.4 in.) from the seat front center	PASS
		edge. The seat shall withstand a 20N (4.5 lbf.)	
		horizontally from the front seat edge without	
		tipping.	
Arm Strength Test	ANSI/BIFMA	No loss of serviceability when 825 N (186	
Vertical – Static	X5.1 -2011 Clause 13	lbs.) is applied for 1 min. The vertical load is	PASS
(Functional Load)		uniformly applied along a 127mm (5 in.)	
/A Other with Took	ANIOL/DIENAA	length at the apparent weakest point.	
(Arm Strength Test	ANSI/BIFMA	No sudden and major change in the	
Vertical –Static (Proof Load)	X5.1 -2011 Clause 13	structural integrity (loss of serviceability is acceptable) when 1238 N (278 lbs.) is	
Load)		applied for 1 min. The vertical load is	PASS
		uniformly applied along a 127mm (5 in.)	
		length at the apparent weakest point.	
Arm Strength Test	ANSI/BIFMA	No loss of serviceability when 490 N (110	
Horizontal – Static	X5.1 -2011 Clause 14	lbs.) for 1 min. is applied horizontally outward	DAGG
(Functional Load)		to the armrest at the most forward point of	PASS
,		the armrest.	
Arm Strength Test	ANSI/BIFMA	No sudden and major change in the	
	X5.1 -2011 Clause 14		
(Proof Load)			PASS
Book Book 1999 To a	ANOU/DIESSA NE 4		
Cyclic – Type I	ZUTT Clause 15		
			PASS
		half to each side.	
Horizontal – Static (Proof Load) Back Durability Test – Cyclic – Type I		structural integrity (loss of serviceability is acceptable) when 734 N (165 lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest. No loss of serviceability in 120,000 cycles with a 112 kg (2248 lbs.) in the center of the seat and a 490 N (110 lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the center of chair back for 80,000 cycles and then 102mm (4 in.) off-center 40,000 cycles,	PASS PASS





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Test Property	Test Method	Test Principle / Requirements	Results
Back Durability Test – Cyclic – Type II & III	ANSI/BIFMA X5.1 – 2011 Clause 16	No loss of serviceability in 120,000 cycles with a 112 kg (248 lbs.) in the center of the seat and a 367 N (83 lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the	PASS
Caster / Chair Base	ANSI/BIFMA X5.1 -	center of chair back for 80,000 cycles and then 102mm (4 in.) off-center 40,000 cycles, half to each side. No loss of service after 2,000 cycles over a	
Durability Test For Pedestal Base Chair	2011 Clause 17.1	hard surface with 3 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 124 kg (275 lbs.) load on the seat. Test stoke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.	PASS
Caster / Chair Base Durability Test For Chairs with Legs	ANSI/BIFMA X5.1 - 2011 Clause 17.2	No loss of service after 2,000 cycles over a hard surface with 2 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 124 kg (275 lbs.) load on the seat. Test stoke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.	N/A
Leg Strength Test – Front Load (Functional Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.3	No loss of serviceability when a force of 367 N (83 lbf.) is applied to each front leg individually for 1 minute.	N/A
Leg Strength Test – Front Load (Proof Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.3	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 553 N (124 lbf.) is applied to each front leg individually for 1 minute.	N/A
Leg Strength Test – Side Load (Functional Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.4	No loss of serviceability when a force of 367 N (83 lbf.) is applied once to each front and rear leg individually for 1 minute.	N/A
Leg Strength Test – Side Load (Proof Load)	ANSI/BIFMA X5.1 - 2011 Clause 18.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 553 N (124 lbf.) is applied once to the front and rear leg individually for 1 minute.	N/A
Footrest Static Load Test - Vertical-Functional load (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 19.4.1	Apply a force F1 of 490 N (110 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction, maintain force F1 and apply an additional force F2 of 490 N (110 lbf.) to the footrest at the opposing position for an additional one (1) minute. There shall be no loss of serviceability or sudden loss of footrest height.	N/A





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Tost Proporty	Test Method	Test Principle / Requirements	Results
Test Property Footrest Static Load Test	ANSI/BIFMA X5.1 -	Apply a force of 1467 N (330 lbf.) uniformly	nesuits
- Vertical-Proof load (If applicable)	2011 Clause 19.4.3	along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.	N/A
Footrest Durability Test – Vertical – Cyclic (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 20	No loss of serviceability after 50,000 cycles of a 979 N (220 lbf) load vertical along 102mm (4 in.) length of the footrest at the apparent weakest point of the structure.	N/A
Arm Durability Test – Cyclic	ANSI/BIFMA X5.1 - 2011 Clause 21	No structural breakage or loss of serviceability when a force of 440 N (99 lbf.) is applied to each arm at a 10° angle ±1° for 60,000 cycles	PASS
Out Stop Tests For Chairs With Manually Adjustable Seat Depth (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 22	Place 77 kg (1169 lb.) rigid mass in the center of the seat, 28 kg (61 lbf.) hanging weight shall be held at its most rearward position, then released, permitting it to move forward rapidly and impact the out stops. Repeat for a total of 25 cycles. There shall be no loss of serviceability to the unit.	PASS
Tablet Arm Static Load Test (If applicable)	ANSI/BIFMA X5.1 - 2011 Clause 23	Apply a load of 75 kg (165 lb.) through a 203 mm diameter area 25 mm from the edge of the surface at its apparent weakest point, for five (5) minutes. Shall cause no sudden and major change in the structural integrity of the chair at the first load, and after performing the test, the tablet arm must allow egress form the unit; other losses of serviceability are acceptable.	N/A
Tablet Arm Load Ease Test – Cyclic (If applicable)	ANSI/BIFMA X5.1 - 20011 Clause 24	A 377 N (85 lb.) bag shall be raised until the entire weight is off the tablet surface and then eased (without impact) onto the surface, repeat for a total of 100,000 cycles without loss of serviceability to the unit.	N/A
	elow don't need cond	ucting if no additional request from Offic ne upholstery is the fabric)	e Max. But the
Colorfastness to Crocking (Applicable to Fabric, Leather, Leatherette)	AATCC 8 Edition: 2005	Dyed Textiles – Dry: Min 4.0, Wet: Min 3.0 Print Textiles or Denim Textiles – Dry: Min 3.0, Wet: Min 2.0 Genuine or Suede Leather – Dry: Min 3.0, Wet: Min 2.0 Synthetic Leather – Dry: Min 4.0, Wet: Min 3.0	PASS See test results 3





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Test Property	Test Method	Test Principle / Requirements	Results
Colorfastness to Light: 20 AFU (Applicable to Fabric, Leather, Leatherette)	AATCC 16, Option 3 Edition: 2006	Material does not fade excessively when exposed to light @ 20 AFU. Note: 2.0 Min.	N/T
Colorfastness to Water Spotting (Applicable to Fabric, Leather, Leatherette)	AATCC 104 Edition: 2004	Shade Change: 4.0 Min Staining: 3.0 Min Self-Staining: 4.5 Min	N/T
Fabric Strength: (Length & Width)	ASTM D5034-95 (R2001)	Minimum 50 lbs / in.	N/T
Seam Strength (Applicable to Fabric, Leather, Leatherette)	ASTM D1683-04	Minimum 30 lbs	N/T
Tear Strength: (Length & Width) (For Most Fabrics Except Leather)	ASTM D1424-96 (R2004)	6.0 lbs (Minimum)	N/T
Abrasion Resistance (Applicable to Fabric, Leather, Leatherette)	ASTM D3884-01e1	Abradant: H18, head wt: 500g 200 cycles for leather, corduroy and vinyl only 300 cycles for other fabrics Must have less than 10% weight loss	N/T

Additional Class 2 Power Units Tests: UL 1310 (as applicable)

LABELING			
US			
Rating	UL 1310, Sec. 50	The electrical ratings of a unit shall include: primary or input voltage or input voltage range; primary or input frequency expressed in hertz, Hz, cycles-per-second, cps, cycles/second, or c/s; output in amperes, voltamperes or watts for each output; and output voltage for each output in alternating or direct current. Exception: When a battery charger is configured for use as part of a specific system and the battery is evaluated as part of the system, or when the charger is marked for use with a specific battery pack, the output ratings are not required to be marked on the charger.	N/A
Markings & Instructions	UL 1310, Sec. 51, 52, 54, 65 & 66	Shall provide applicable marking requirements and instructions as listed in UL 1310, Sections 51, 52, 54, 65 & 66.	N/A
PERFORMANCE TEST	ING		
Leakage Current Test	UL 1310, Sec. 26	The leakage current of a unit shall not be greater than: a) 0.5 mA for a portable unit; or b) 0.75 mA for a stationary unit.	N/A





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Test Property	Test Method	Test Principle / Requirements	Results
Normal Temperature Test	UL 1310, Sec. 33 (Modified)	The maximum temperature rise for the sample shall not be greater than the following: Surface Temperature, Metal: 30°C (54°F) Surface Temperature, Nonmetallic: 50°C (90°F) Wood or similar material: 65°C (117°F) Modification: Only surfaces that the consumer can reach via hand are tested.	N/A
Dielectric Voltage Withstand Test	UL 1310, Sec. 34	The unit shall withstand for 1 minute without breakdown, 1000 volts AC plus two times the maximum rated voltage.	N/A

Additional Motor-Operated Massage and Exercise Machines Tests: UL 1647 (as applicable)

LABELING	-		
Markings & Instructions	UL 1647, Sec. 31, 53 & 54	Shall provide applicable marking requirements and instructions as listed in UL 1647, Sections 31, 53 & 54.	N/A
PERFORMANCE TEST	TING		
Leakage Current Test	UL 1647, Sec. 33	The leakage current of a unit shall not be more than: a) 0.5 milliampere for an ungrounded 2-wire appliance b) 0.5 milliampere for a grounded 3-wire portable appliance, and c) 0.75 milliampere for a grounded 3-wire appliance: 1) employing a standard attachment plug rated 20 amperes or less and 2) Intended to be fastened in place or located in a dedicated space.	N/A
Input Test	UL 1647, Sec. 36	The current or wattage input to an appliance shall not be more than 110 % of the rated value when the appliance is operated under the condition of maximum normal load.	N/A
Surface Temperature Test	UL 1647, Sec. 38.1- 38.2	During the temperature test, the temperature of a surface that may be contacted by the user shall not be more than the value specified in 38.2 or Table 38.1, as applicable.	N/A





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Test Property	Test Method	Test Principle / Requirements	Results
Switches & Controls Test	UL 1647, Sec. 43	The device that controls a motor of an appliance, or the like, shall perform acceptably when subjected to an overload test consisting of 50 cycles of operation. There shall be no electrical or mechanical malfunction or breakdown of the device or undue burning or pitting of the contacts, and the fuse in the grounding connection shall not open.	N/A
Strain Relief Test	UL 1647, Sec. 45	The strain relief means shall withstand 1 minute without displacement a direct pull of 35 lbs (156 N).	N/A

Remark: N/A – Not applicable; N/T – Not tested as per client's requirements; N/R – Not requested by client.





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Test Result 1: Chemical test (SGS Ref No. CAN13-105392& CAN13-108006)

Test Part Description:

Specimen No.	SGS Sample ID	Description
1	CAN13-105392.001	Black coating on metal
2	CAN13-105392.002	Black synthetic leather

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

16 CFR 1303

Test Method: CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operation Procedure for Determining

Lead (Pb) in Paint and Other Similar Surface Coatings'.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Lead (Pb)	0.009	% (w/w)	0.002	0.0042
Comment				PASS

CA65- Lead (Pb)

Test Method: CPSC Test Method: CPSC-CH-E1002-08.1 . Analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Lead (Pb)	200	ma/ka	20	ND

Notes:

(1) The maximum permissible limits are quoted from requirement as stated by Superior Court of the State of California -A Settlement Agreement only, without Court case no.

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Test Part Description:

Specimen No. SGS Sample ID Description

1 CAN13-108006.001 White paint

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

16 CFR 1303

Test Method: CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operation Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'.

 Test Item(s)
 Limit
 Unit
 MDL
 001

 Lead (Pb)
 0.009
 % (w/w)
 0.002
 ND

 Comment
 PASS

Notes:

(1) The result(s) of 001 shown is/are of the total weight of wet sample.





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Test Result 2: Flammability test

1. Foam

(1) TB117 Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture-2000 Section A Part I

I Sample Details

Material / Color:	Foam / White	Density of sample:	69.3 kg/m ³
Specified size of sample	12 x 3 x 1/2 inches	Actual size of sample:	12 x 3 x 1/2 inches
II Test Condition			

	Temperature	Relative humidity	Duration
Conditioning of test sample	(20±2)°C	RH (50±5)%	24 h
Oven Aging	104°C		24 h

III Acceptance Criteria:

For each set of tests (Initial and After Oven Aging):

(1) The material fails the test when two or more specimens fail the following criteria,

(2) or one-time retest of 5 additional specimens is permitted if only 1 specimen fails the following criteria. The material fails the test if one or more specimen fails in retest.

	After flame	After glow	Char Length
Maximum Individual Specimen	10.0 seconds	Not specified	8.0"
Maximum Average	5.0 seconds	15.0 seconds	6.0"

IV Test Result

Specimen Number		After flame (Second)	After glow (Second)	Char length (inch)	Rating
	1	1.2	0.0	0.8	Pass
	2	0.0	0.0	0.5	Pass
Initial Test	3	1.8	0.0	0.4	Pass
IIIIIIai Test	4	0.9	0.0	0.6	Pass
	5	1.7	0.0	0.7	Pass
	AVE	1.1	0.0	0.6	Pass
After Oven Aging	6	1.8	0.0	0.9	Pass
	7	2.3	0.0	1.0	Pass
	8	2.5	0.0	0.5	Pass
	9	0.0	0.0	0.7	Pass
	10	1.7	0.0	0.6	Pass
	AVE	1.7	0.0	0.7	Pass

Sub - Conclusion: Pass

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(2) TB117 Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture-2000 Section D Part ${\rm II}$

I Sample Details

Material / Color:	Foam / White	Density of sample:	69.3 kg/m ³
Thickness of sample:		51 mm	

II Test Condition

	Temperature	Relative humidity	Duration
Precondition	(20±2)°C	RH (50±5)%	24 h

III Acceptance Criteria:

For each specimen: Minimum weight retention of greater than 80%.

- (1) The foam fails the test when two or more specimens fail the criteria,
- (2) or a single retest of 3 additional specimens is permitted if the weight retained of 1 specimen is less than 80%. The foam fails the test if one or more specimen fails in retest.

IV Test Result

Specimen #	Weight Before Test (grams)	Weight After Test (grams)	Weight Retained (percent)	Rating
1	210.3	208.5	99.1	Pass
2	208.4	207.3	99.5	Pass
3	207.9	206.8	99.5	Pass

Sub – Conclusion: Pass

2. Fabric/Leatherette

TB117 Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture-2000 Section E Part I Upholstery Fabrics

I Sample Details

Materials / Color	Plain Surface Materials (Leather) / Black
Weight of sample	800 g/m ²

II Test Condition

Conditioning of test specimen	Temperature: T=221°F (105°C)	Duration: 30min
-------------------------------	--------------------------------	-----------------





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III Acceptance Criteria:

Shall meet the class 1 requirements of U.S department of commercial standard 191-53

Minimum Average Burning Time (Flame Spread)				
Plain Surface Materials 3.5 Seconds or No Recordable Burning Time				
Raised Surface Materials 7 Seconds or No Recordable Burning Time				

ABBREVIATIONS OF "NO RECORDABLE BURNING TIME" CATEGORIES:

DNI--Did not ignite when exposed to test ignition source.

IBE--Ignited but extinguished before burning through stopcord.

SF--Surface flash only; stopcord not burned & no burning/charring/fusing of the base fabric.

TSF--Timed surface flash; stopcord burned, but no burning/charring/fusing of the base fabric.

N/A-- Not Applicable.

IV Test Result:

Rate of Burning (sec)							
Length			Width				
Sample#	Face	Sample#	Back	Sample#	Face	Sample#	Back
1	DNI	6	DNI	11	DNI	16	DNI
2	DNI	7	DNI	12	DNI	17	DNI
3	DNI	8	DNI	13	DNI	18	DNI
4	DNI	9	DNI	14	DNI	19	DNI
5	DNI	10	DNI	15	DNI	20	DNI
Average	N/A	Average	N/A	Average	N/A	Average	N/A

Sub-Conclusion: Pass

Test Result 3:

Colorfastness to Crocking: Crock meter Method (AATCC Test Method 8-2007)

General Information:

Style of Specimen : See photo Test Cycles : 10

Atmospheric Conditioning : Temperature: 21±1°C; Humidity: 65±2%RH

Crocking Method : Dry Crocking Wet Crocking

Test Equipment : Color fastness tester; Model: CM-1; No.: SD-HG-E333





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Test Result:

Sample	Crocking Method	Grade	Client's requirement	Conclusion
1	Dry Crocking	4.5	Grade≥ 3	Pass
·	Wet Crocking	2.5	Grade≥ 2	Pass

Note: According to AATCC test method 8, the grade 5 was the best and grade 1 was the worst.

PHOTO APPENDIX:









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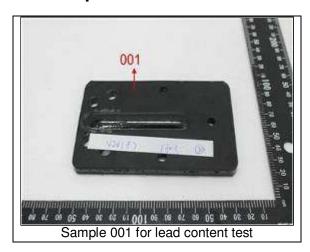




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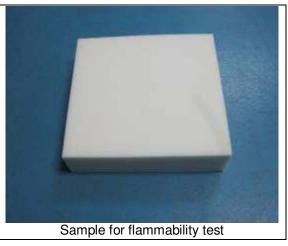
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Sample 002 for lead content test









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NOTICE

THIS ARTICLE MEETS
THE FLAMMABILITY
REQUIREMENTS OF
CALIFORNIA BUREAU
OF HOME FURNISHINGS
TECHNICAL BULLETIN
117.CARE SHOULD BE
EXERCISED NEAR
OPEN FLAME OR WITH
BURNING CIGARETTES.

Law label

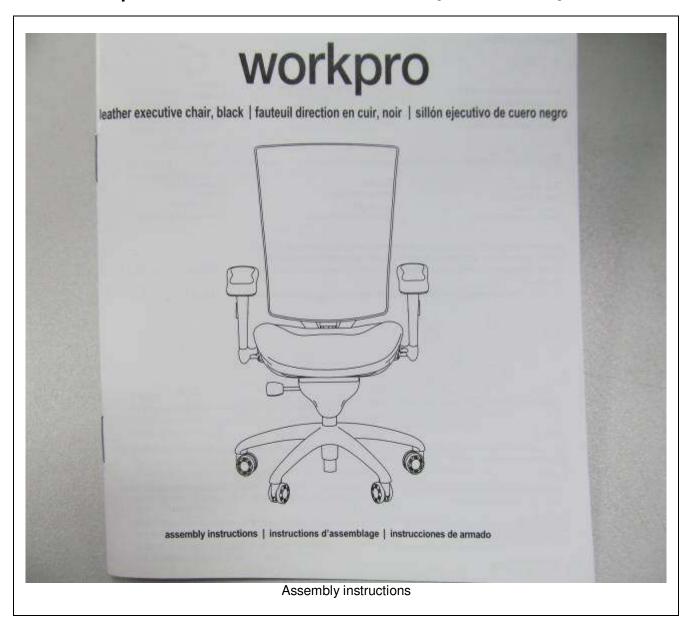




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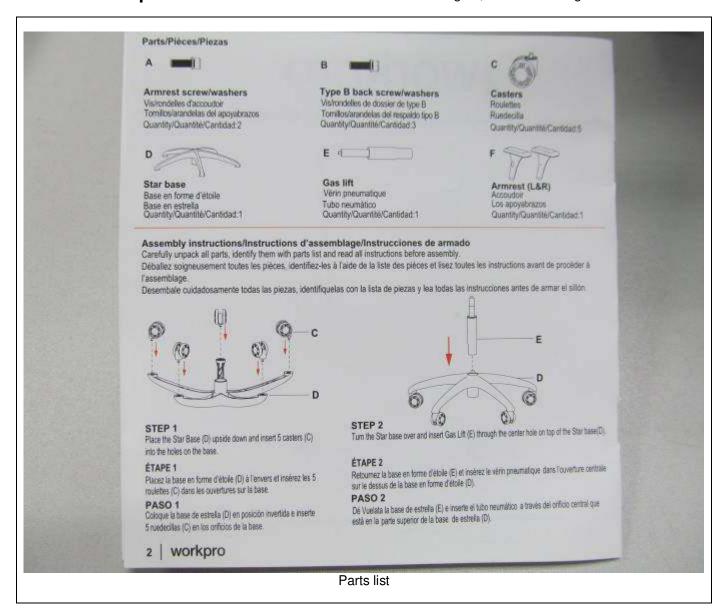
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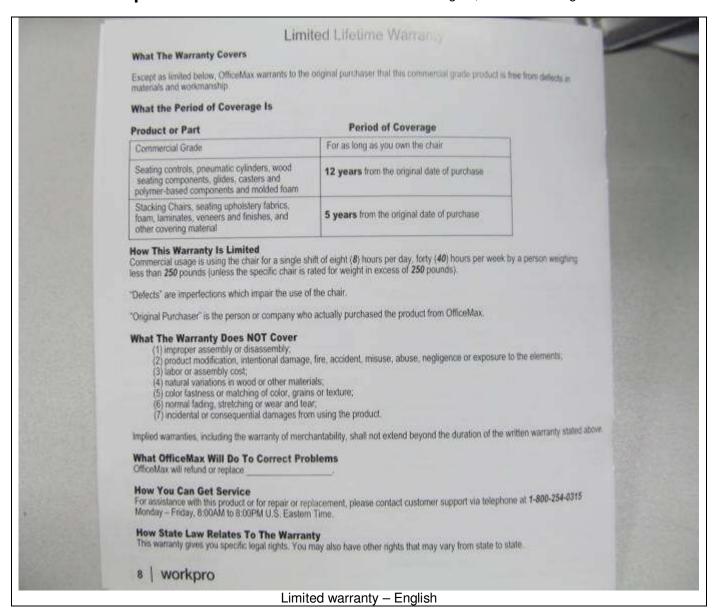
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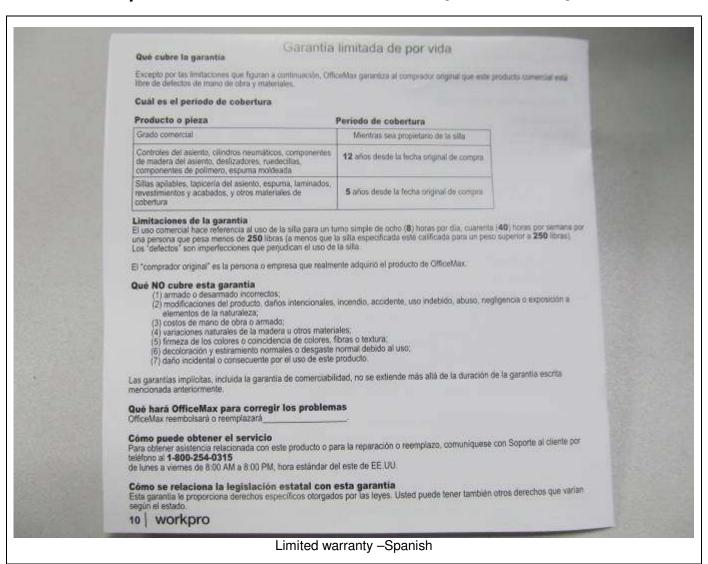
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*** End of Report ***