



ista

TEST REPORT FORM

Procedure used: 3A - STANDARD 3A - SMALL

3A - FLAT 3A - LONG

VERSION DATE: 2011

WHEN SUBMITTING A 3A TEST REPORT FORM TO ISTA, PLEASE INCLUDE A PHOTO OR DRAWING OF THE TOP LOAD APPARATUS THAT WAS USED DURING TESTING.

> ISTA CERTIFIED LABORATORY

Laboratory Advance Packaging Corporation
Address 4459 40th Street S.E., PO Box 888311
City, State/Prov Grand Rapids, MI
ZIP/Postal Code, Country 49588, 8311

ISTA Member ID ST-2330
Technician Performing Test Scott Wilcox
Email Swilcox@advancepkg.com
Lab Reference Number (if applicable)

> PRODUCT MANUFACTURER / SHIPPER

Test Requested by Zaid Alam
Company Hoizon Home Imports Inc.
Address 11511 Granite St, Suite A
City, State/Prov Charlotte, NC
ZIP/Postal Code, Country 28273,

Phone 704-859-5133
Email zalam@horizonhomeimports.com
ISTA Member ID (if applicable)
ISTA Manufacturer's License Number (if applicable)

> TEST DETAILS ALL FIELDS IN THIS SECTION MUST BE COMPLETED

Date Tested 6/3/11

Product Damage Tolerance (PDT) The rug must remain tightly wrapped and the rug edges can not show any signs of fraying or dirt, it must remain clean and defect free.

Number of Samples tested One

Package Degradation Allowance (PDA) The bag must remain sealed and be capable of supporting the weight of the rug when lifted from the top. Minor cuts in the plastic are acceptable but no large rips or tears greater than one inch are allowed.

Number of replicate tests 0

PDT/PDA Determined By/Date Scott W & Zaid Alam

Gross Weight 34

Method used to determine Pass/Fail Visual Inspection

External Dimensions (L x W x H) 61 x 10 x 10

Person determining Pass/Fail result Scott Wilcox

> PRODUCT AND PACKAGE DESCRIPTIONS ALL FIELDS IN THIS SECTION MUST BE COMPLETED It is strongly recommended that photographs, detailed drawings, and/or complete specifications of product and exterior and interior packaging accompany this report. If there is insufficient information supplied by the product manufacturer, please indicate the reason in the TEST RESULTS section, at the end of this report form.

Specific PRODUCT TESTED: Include, as applicable, product name, brand, model number, serial number and similar information that will help to identify the specific product tested
100% wool rug, Stocking No. HHI-01 & Item # 2993

Was the PACKAGING used during testing:
 ORIGINAL as arrived in the lab for testing
 NEW re-packaged with new materials before testing

PRODUCT Description: Describe product in detail. Include type of product, accessories and other identifying information, including specifics on bottles, containers and liquid or solid contents
100% wool rug that measured appr. 5' X 8', the rug is tightly rolled into a cylinder with the backing facing out.

PACKAGE Condition before testing: List any damage or irregularities seen prior to testing
The package arrived in good condition with the cable ties on both ends in place and only a couple of very minor tears in the plastic bags. These were circled with a black marker prior to beginning the test. See pre-test pictures for more details.

Did the lab OPEN the packaged-product before testing to determine product condition? YES NO

PACKAGE Description: Describe entire shipping unit. Description must be detailed and should include type, style and material

For review and acknowledgement of testing, submit test report and all appropriate additional documents/photos/data to:

ISTA • 1400 Abbot Road, Suite 160 • East Lansing, MI 48823-1900 USA

ista@ista.org • www.ista.org • Ph: +1 517 333 3437

FORM 3A updated JANUARY 2010

If YES to above, list PRODUCT Condition before testing:

List any damage or irregularities seen prior to testing

of packaging; corrugated board composition; cushion details including performance; film gauge and composition; application or package forming details; mold numbers; any pallet or skid; unitization method for unit loads; methods of closure, etc.

The rug was rolled into a tight cylinder before being placed into 2 layers of 4 mill poly sleeves. This is then placed into a 6 mill poly sleeve that is open at both ends. Each end is then pulled tight twisted and a plastic cable tie is used to close the ends of the sleeves.

For review and acknowledgement of testing, submit test report and all appropriate additional documents/photos/data to:

ISTA • 1400 Abbot Road, Suite 160 • East Lansing, MI 48823-1900 USA

ista@ista.org • www.ista.org • Ph: +1 517 333 3437

FORM 3A updated JANUARY 2010

> ORIENTATION

What position was the packaged-product in when the faces, edges and corners were identified:

- MOST STABLE SHIPPING

Explain position if different than procedure recommendation:

> ATMOSPHERIC CONDITIONING

Required Preconditioning (Ambient)

Ambient Temperature (°F / °C) 72

Ambient Humidity (%) 50

Time of conditioning prior to test 24+

Optional Conditioning (Controlled)

Time of Conditioning (hours)

Temperature (°F / °C)

Humidity (%)

Start of test:

Temperature (°F / °C) 72.8

Humidity (%) 48.9

End of test:

Temperature (°F / °C) 71

Humidity (%) 50.4

> SHOCK TEST FIRST DROP SEQUENCE (FOR SMALL: DO NOT TEST IN BAG)

Use the spaces below to record drop heights and orientations of each drop:

Shock Sequence Number	Height / Velocity of Shock (inches / mm OR fps / ips)	Orientation of packaged-product (ex: Face 6; Corner 2-3-5, Edge 3-5)		Was packaged-product CAUGHT to prevent tipping over? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
		EDGE	CORNER	
1	18	EDGE	3-4	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	18	EDGE	3-6	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
3	18	EDGE	4-6	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
4	18	CORNER	3-4-6	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
5	18	CORNER	2-3-5	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
6	18	EDGE	2-3	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
7	18	EDGE	1-2	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
8	36	FACE	3	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
9	18	FACE	3	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

> VIBRATION UNDER DYNAMIC LOAD OVER-THE-ROAD

>> FOR STANDARD, FLAT, LONG:

Use the spaces below to record top-load calculations, test time and orientation:

	Formula, with values, used to calculate Top Load	Calculated Top Load	Actual Top Load Used	Total Test Time	Face resting on platform
TL-H	$(108-61) * 10 * 10 * .0035$	16.45	0	60	3
TL-W	$(108-10) * 61 * 10 * .0035$	209	210	30	4
TL-L	$(108-10) * 61 * 10 * .0035$	209	210	30	6

>> FOR SMALL: TEST IN BAG

Record quantity of each type of dunnage material used:

Over-night envelope	#6 Fiberboard mailer	Dimensions of Sample Bag
#5 Padded mailer	Book-wrap	Weight of Top Load bag
Fiberboard Box	Telescoping tray	

1st part: Face on platform	2nd part: Face on platform
Test Time	Test Time

>> FOR ALL: OVER THE ROAD

(FOR SMALL: TEST IN BAG)

Describe restraining devices used, if any: Four metal bars were used to keep the product centered on the table.

Use the spaces below to record frequency and PSD levels used:

Frequency (Hz)	PSD Level, g^2 / Hz
1.0	.0007
3.0	.02
5.0	.02
7.0	.001
12.0	.001
15.0	.004
24.0	.004
28.0	.001
36.0	.001
42.0	.003
75.0	.003
200.0	.000004
Overall Grms:	.53

>> FOR ALL: PICK-UP AND DELIVERY

(FOR SMALL: DO NOT TEST IN BAG)

Describe restraining devices used, if any: Four metal bars were used to keep the product centered on the table.

Face resting on platform: 3 Total test time: 30

Use the spaces below to record frequency and PSD levels used:

Frequency (Hz)	PSD Level, g^2 / Hz
1.0	.001
3.0	.035
4.0	.035
7.0	.0003
13.0	.0003
15.0	.001
24.0	.001
29.0	.0001
50.0	.0001
70.0	.002
100.0	.002
200.0	.00005
Overall Grms:	.46

> **SHOCK TEST** SECOND DROP SEQUENCE (FOR SMALL: TEST IN BAG)

Use the spaces below to record drop heights and orientations of each drop:

Shock Sequence Number	Height / Velocity of Shock (inches / mm OR fps / ips)	Orientation of packaged-product (ex: Face 6; Corner 2-3-5, Edge 3-5)		Was packaged-product CAUGHT to prevent tipping over? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
10	18	EDGE	3-4	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
11	18	EDGE	3-6	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
12	18	EDGE	1-5	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
13	18	CORNER	3-4-6	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
14	18	CORNER	1-2-6	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
15	18	CORNER	1-4-5	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
16	36	FACE	5	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
17 (on hazard, as applicable)	18	FACE	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

> **SHOCK TEST** FLAT AND ELONGATED ONLY

Rotational Edge Drop

Timber support W: 3.5 H: 3.5

Hazard Box Weight: 9 Dimensions
L: 12
W: 12
H: 12

Please list the height and orientation for each drop		
Shock Sequence Number	Drop Height (in / mm)	Orientation (ex: 3-5)
1	8	Edge 2-3
2	8	Edge 3-5
3	8	Edge 1-5

Full Rotational Flat Drop
Orientation - Drop One: Face 2
Orientation - Drop Two: Face 5

Bridge Impact ELONGATED
Drop Height used: 16

Concentrated Impact FLAT
Drop Height used:

> **BASIS WEIGHT**

If the carton is corrugated, list the Basis Weight after testing:

> **TEST RESULTS**

PRODUCT Condition after testing (if inspected): **No defects were noted on either ends of the product. The rug was not completely taken out of the plastic sleeve do to return shipping issues but no rips or tears were noted in the center portion of the rolls.**

PACKAGE Condition after testing: **The outer bag was not torn or ripped in any locations that were not previously marked. None of the small tears in the outer bag grew by any significant amount throughout the testing and the inner bag was never damaged. I was able to lift the rug from both ends and both cable ties remained secure. Note Pictures B4 and B5 of the post test pictures. The black marks shown were from the vertical supports that held the top loads in place. These areas were in direct constant contact with the product through out the second and third parts of the over the road test and the outer plastic sleeve was strong enough to withstand this abuse without being torn.**

Pass **Fail**

Comments or recommendations:

The two poly bags fully protected the product from abrasion and dirt throughout the test and the cable ties used on the ends were more than sufficient to allow the extra material to be used as a handle.