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CERTIFIED LABORATORY REPORT FORM

ISTA Preshipment PROCEDURE Performed:
PROCEDURE 3A Version (year): **2008**
 Standard Small
 Flat Elongated

Please TYPE or PRINT clearly

CERTIFIED LABORATORY INFORMATION

Laboratory: Northwest Environmental Test Lab Lab Member ID: ST-2363
 Address: 5293 NE Elam Young Pkwy Ste. 190 City: Hillsboro State: OR Zip Code: 97124-6431 Country: USA
 Test Technician Performing Test: WEB Report Submitted By: WEB
 Email: wbrokaw@nwell.com

PRODUCT MANUFACTURER/SHIPPER INFORMATION

Test Requested By: Susan Akers
 Company: Keyes Fibre Corporation
 Address: 3715 Chelan Highway
 City: Wenatchee State/Prov.: WA
 Zip/Postal Code: 98801 Country: USA
 Phone: 800.786.8517 x223 Fax: 509.662.1023
 Email: sakers@keyesfibre.com
 Manufacturer's License Number (if known and applicable):

THIRD-PARTY TEST REQUESTER INFORMATION

Test Requested By:
 Company:
 Address:
 City: State/Prov.:
 Zip/Postal Code: Country:
 Phone: Fax:
 Relationship to Product Mfg./Shipper:

PACKAGE AND PRODUCT INFORMATION

Specific Product Tested (Product description should include, as applicable, product name, brand, model number, serial number and similar information. It is strongly recommended that photographs accompany this report.):

Date Tested: 6,8,9 Dec08
 Number of samples tested: 1
 Number of replicate tests performed: 0
 Gross Weight: 6.5 lbs
 External Container Size (LxWxD): 15.25" x 10.75" x 5.0"

Test Number (if assigned by Laboratory): "H" 2 Bottle Shipper
 Product Damage Tolerance (PDT): No Bottle Breakage
 Package Degradation Allowance (PDA): Not Significant
 Method used to determine pass/fail: Visual Inspection
 PDT/PDA Determined By/Date: Susan Akers 12/2008

PACKAGE DESCRIPTION

Describe entire shipping unit. Package description must be detailed and specific and should include type, style and material of packaging; corrugated board composition; cushion details including performance; film gage and composition; application or package forming details; mold numbers; any pallet or skid; unitization method for unit loads; methods of closure, etc. It is strongly recommended that photographs, detailed drawings, and/or complete specifications of both exterior and interior packaging accompany the report. It is recommended that a picture or drawing of both exterior and interior packaging accompany this report.

Outer Packaging - Single wall corrugated fiberboard container - 200/84/75/65
 Inner Packaging - (2) 750 ml bottles placed into box using (2) molded fiber trays to suspend the bottles on their sides.
 Closure - 2" clear pressure sensitive tape. One strip where flaps meet extending a minimum of 1" over each end.

TEST METHODS – THIS SECTION TO BE USED FOR PROCEDURE 3A ONLY.

STANDARD PACKAGES

ATMOSPHERIC MEASUREMENT INFORMATION

Required Preconditioning (Ambient)

Temperature (°F / °C): 21C Humidity (%): 39 Time of conditioning prior to testing: 18hrs

Start of test: Temperature (°F / °C): 22 Humidity (%): 41 **End of test:** Temperature (°F / °C): 23 Humidity (%): 39

Optional Conditioning (Controlled)

Time of Conditioning (hours): Temperature (°F / °C): Humidity (%):

SHOCK TEST INFORMATION: FIRST SERIES OF DROPS

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

Drop Number	Height of Shock (mm / inches)	Orientation of packaged-product (ex: face 1; corner 2-3-5, edge 2-3)	
1	18in	EDGE	3-4
2	18in	EDGE	3-6
3	18in	EDGE	4-6
4	18in	CORNER	3-4-6
5	18in	CORNER	2-3-5
6	18in	EDGE	2-3
7	18in	EDGE	1-2
8	36in	FACE	3
9	18in	FACE	3

VIBRATION UNDER DYNAMIC LOAD TEST INFORMATION

Over-The-Road vibration spectrum: (spectrum listed below)

Describe restraining devices used, if any:

Formula, with values, used to calculate TL-H: $(108-5.0)(10.25)(15.25)(0.0035)$	Calculated Top Load (TL-H): 60 lbs	Total Test Time: 60 min	Face resting on platform: F3dn
Formula, with values, used to calculate TL-W: $(108-10.25)(15.25)(5.0)(0.0035)$	Calculated Top Load (TL-W): 30 lbs	Total Test Time: 30 min	Face resting on platform: F4dn
Formula, with values, used to calculate TL-L: $(108-15.25)(10.25)(5.0)(0.0035)$	Calculated Top Load (TL-L): 0 lbs	Total Test Time: 30 min	Face resting on platform: F6dn

Pick-up and Delivery vibration spectrum: (spectrum listed below)

Face resting on platform: F3dn	Total test time: 30 min
Face resting on platform:	Total test time:
Face resting on platform:	Total test time:

Check here to verify that you have used the required breakpoints listed below :

OVER-THE-ROAD		PICK-UP AND DELIVERY	
Frequency (Hz)	PSD Level, g ² / Hz	Frequency (Hz)	PSD Level, g ² / Hz
1	0.0007	1	0.001
3	0.02	3	0.035
5	0.02	4	0.035
7	0.001	7	0.0003
12	0.001	13	0.0003
15	0.004	15	0.001
24	0.004	24	0.001
28	0.001	29	0.0001

36	0.001		50	0.0001
42	0.003		70	0.002
75	0.003		100	0.002
200	0.000004		200	0.00005

SHOCK TEST INFORMATION: SECOND SERIES OF DROPS

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

Drop Number	Height of Shock (inches / mm)	Orientation of packaged-product (ex: face 1; corner 2-3-5, edge 2-3)	
10	18in	EDGE	3-4
11	18in	EDGE	3-6
12	18in	EDGE	1-5
13	18in	CORNER	3-4-6
14	18in	CORNER	1-2-6
15	18in	CORNER	1-4-5
16	36in	FACE	3
17 <i>(on hazard)</i>	18in	FACE	3

BASIS WEIGHT

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

TEST RESULTS

Pass **Fail**

Comments or recommendations *(include any alternative methods used and the reason used)*:

"H" packaging tape pattern not employed.

Upon visual inspection following test no product damage was observed and visual damage to the protective interior packaging was minimal.