




**UNITED NATIONS / DOT
PERFORMANCE CERTIFICATION**

4G DESIGN QUALIFICATION

**6 x 2.5 Liter Plastic Bottle With 38 – 439 Neck Finish
Packaging With Two Case Sealing Mechanisms**

- #1) Taped Top and Bottom Flaps**
- #2) Taped Top and Glued Bottom Flaps**

TEST REPORT #: 09-7229

 **4G / Y29.1 / S / **
USA / +CC6166**

** Insert year the packaging is manufactured

TESTING PERFORMED FOR:

PUREPAK TECHNOLOGY CORPORATION

324 South Braken Lane Suite 3
Chandler, AZ 85224

ATTN: Mike Dodd

TESTING PERFORMED BY:

TEN-E Packaging Services, Inc.

1666 County Road 74
Newport, MN 55055

Phone: (651) 459-0671

Fax: (651) 459-1430

TEN-E Packaging Services, Inc.

326 N. Corona Avenue
Ontario, CA 91764

Phone: (909) 937-1260

Fax: (909) 937-1262

January 12, 2010

TABLE OF CONTENTS

Section I: CERTIFICATION..... 3

Sections II & V: PACKAGING DESCRIPTION / COMPONENT DRAWINGS 4

COMPONENT INFORMATION..... 6

Section III: TEST PROCEDURES AND RESULTS 8

DROP TESTS Design #1 Taped Top and Bottom Flaps 8

DROP TESTS Design #2 Taped Top and Glued Bottom Flaps..... 9

STACKING & STACKING STABILITY TESTS Design #1 Taped Top and Bottom Flaps 10

STACKING & STACKING STABILITY TESTS Design #2 Taped Top and Glued Bottom Flaps 11

PRESSURE DIFFERENTIAL TEST 12

REPETITIVE SHOCK VIBRATION TESTS Design #1 Taped Top and Bottom Flaps 13

REPETITIVE SHOCK VIBRATION TESTS Design #2 Taped Top and Glued Bottom Flaps..... 14

COBB WATER ABSORPTION TESTS..... 15

REGULATORY AND INDUSTRY STANDARD REFERENCES 16

Section IV: MATHEMATICAL CALCULATIONS..... 17

NOTES AND COMMENTS


+CC6166 certification also covers Test Report 09-7150 6 x 2.5 Liter Plastic Bottle with 45mm Neck Finish Packaging (PT 04003) with Two Case Sealing Mechanisms:
 #1) Taped Top and Bottom Flaps
 #2) Taped Top and Glued Bottom Flaps

SECTION I: CERTIFICATION

**Design Qualification of the PurePak Technology Corporation
6 x 2.5 Liter Plastic Bottle With 38 – 439 Neck Finish Packaging With Two Case Sealing Mechanisms
#1) Taped Top and Bottom Flaps
#2) Taped Top and Glued Bottom Flaps**

TEN-E PACKAGING SERVICES, INC. certifies that the PurePak Technology Corporation packaging referenced above has passed the standards of the DEPARTMENT OF TRANSPORTATION'S TITLE 49 CFR; Performance Oriented Packaging Standards, Section 178. This package is also certified under IMDG, ICAO/IATA Regulations and the UN Recommendations on the Transport of Dangerous Goods. It is the responsibility of the end user to determine authorization for use under these regulations. The use of other packaging methods or components other than those documented in this report may render this certification invalid.

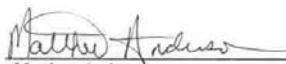
SUMMARY OF PERFORMANCE TESTS

UN /DOT TEST	CFR REFERENCE	TEST LEVEL	TEST CONTENTS	TEST COMPLETED	TEST RESULTS
Drop #1	178.603	1.9m	Methanol / Water	December 4, 2009	PASS
Drop #2	178.603	1.9m	Methanol / Water	December 4, 2009	PASS
Stacking #1	178.606	725.7 Kg – 24 Hrs.	Water	December 4, 2009	PASS
Stacking #2	178.606	725.7 Kg – 24 Hrs.	Water	December 3, 2009	PASS
Pressure	173.27	300kPa – 30 Min.	Water	December 4, 2009	PASS
Vibration #1	178.608	3.7 Hz – 1 Hr.	Water	December 4, 2009	PASS
Vibration #2	178.608	3.6 Hz. – 1 Hr.	Water	December 3, 2009	PASS
Cobb	178.516	30 minutes	---	August 6, 2009	PASS
TEST REPORT NUMBERS:			09-7229, 09-7150		
UN MARKING: (CFR 49 - 178.503)				4G / Y29.1 / S / ** USA / +CC6166	
PACKAGING IDENTIFICATION CODE:			4G - Fiberboard Box (178.516)		
PERFORMANCE STANDARD:			Y (Packaging meets Packing Group II and III tests)		
AUTHORIZED GROSS MASS:			29.1 Kg (64.1 Lbs.)		
"S" DESIGNATION:			Denotes Inner Packagings		
YEAR OF MANUFACTURE:			**Insert year the packaging is manufactured		
STATE AUTHORIZING THE MARK:			USA		
PACKAGING CERTIFICATION AGENCY:			(+CC) TEN-E Packaging Services, Inc. (Ontario, CA)		
THIRD PARTY PACKAGE IDENTIFICATION:			+CC6166		
PERIODIC RETEST DATE:			December 4, 2011		

+CC6166 certification also covers Test Report 09-7150 6 x 2.5 Liter Plastic Bottle with 45mm Neck Finish Packaging (PT 04003) with Two Case Sealing Mechanisms: #1) Taped Top and Bottom Flaps & #2) Taped Top and Glued Bottom Flaps
ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY THAT THE PACKAGING TESTED IS MERCHANTABILITY OR FIT FOR A PARTICULAR PURPOSE, ARE DISCLAIMED. In no event shall TEN-E Packaging Services, Inc. liability exceed the total amount paid by PurePak Technology Corporation for services rendered. In the event of future changes to the above referenced test standard, it is the responsibility of PurePak Technology to determine whether additional testing or updating of past testing is necessary to verify that the packaging we have tested remains in compliance with those standards.

MANUFACTURER:

PurePak Technology Corporation
324 South Braken Lane Suite 3
Chandler, AZ 85224

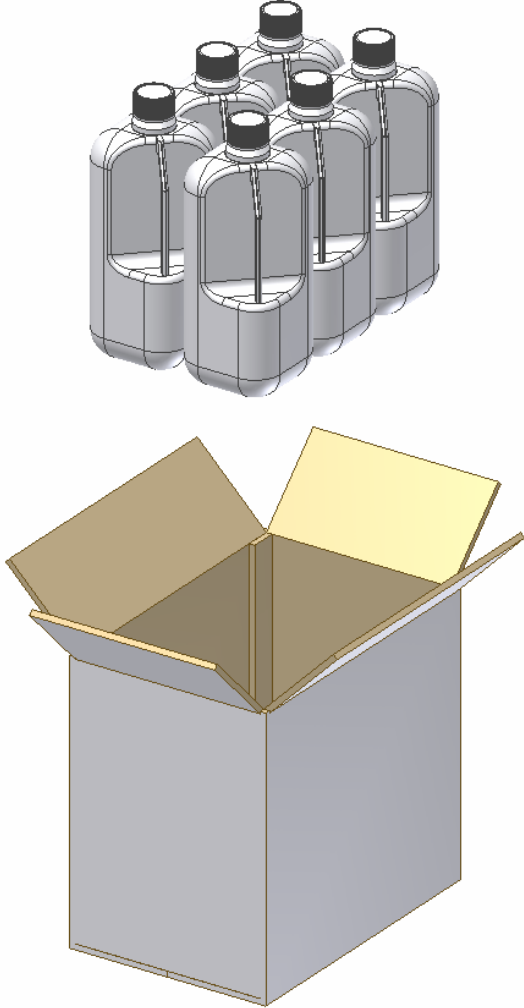


Matthew Anderson
Packaging Engineer
TEN-E Packaging Services, Inc.
326 North Corona Avenue
Ontario, CA 91764

SECTIONS II & V: PACKAGING DESCRIPTION / COMPONENT DRAWINGS

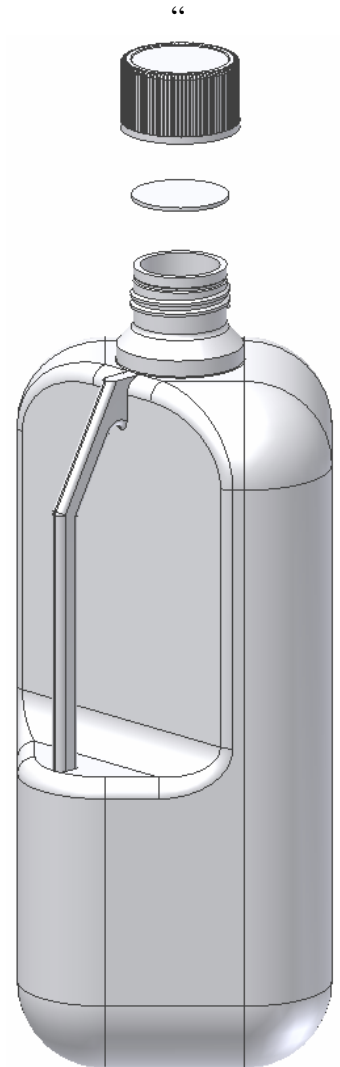
6 x 2.5 Liter Plastic Bottle With 38 – 439 Neck Finish Packaging with Taped Top and Bottom Flaps

ASSEMBLY DRAWING	TEST LEVELS		
	Certification Type:	Design Qualification	
	Packaging Code Designation:	4G	
	Packing Group:	II	
	Specific Gravity:	1.9	
	Internal Pressure:	300 kpa	
	TEST SAMPLE PREPARATION (Refer to Section IV)		
	Overall Packaging Tare Weight:	1,967 Grams	
	Inner Packaging Fill Capacity (98% Maximum Capacity):		
	Methanol/Water	2,274 Grams	
	Water	2,381 Grams	
	Package Test Weight:		
	Methanol/Water	15.6 Kg	(34.3 Lbs.)
	Water	16.2 Kg	(35.7 Lbs.)
	Authorized Package Gross Mass:	29.1 Kg	(64.1 Lbs.)
	CLOSING METHODS – INNER PACKAGING		
Application Torque	45 In-Lbs		
Equipment:	Kaps All Electronic Torque Tester #701		
CLOSING METHODS – SHIPPER			
Top Flaps:			
Type:	Pressure Sensitive Tape		
Width:	48 mm (2")		
Overlap:	2" Minimum		
Tape Pattern:	Center Seam		
Inner Flaps:	4-1/2" Width Gap		
Outer Flaps:	Meet		
Bottom Flaps:			
Type:	Pressure Sensitive Tape		
Width:	48 mm (2")		
Overlap:	2" Minimum		
Tape Pattern:	Center Seam		
Inner Flaps:	4-1/2" Width Gap		
Outer Flaps:	Meet		

6 x 2.5 Liter Plastic Bottle With 38 – 439 Neck Finish Packaging with Taped Top and Glued Bottom Flaps		
ASSEMBLY DRAWING	TEST LEVELS	
	Certification Type: Design Qualification	
	Packaging Code Designation: 4G	
	Packing Group: II	
	Specific Gravity: 1.9	
	Internal Pressure: 300 kpa	
	TEST SAMPLE PREPARATION (Refer to Section IV)	
	Overall Packaging Tare Weight: 1,967 Grams	
	Inner Packaging Fill Capacity (98% Maximum Capacity):	
	Methanol/Water 2,274 Grams	
	Water 2,381 Grams	
	Package Test Weight:	
	Methanol/Water 15.6 Kg (34.3 Lbs.)	
	Water 16.2 Kg (35.7Lbs.)	
	Authorized Package Gross Mass: 29.1 Kg (64.1 Lbs.)	
	CLOSING METHODS – INNER PACKAGING	
Application Torque 45 In-Lbs		
Equipment: Kaps All Electronic Torque Tester #701		
CLOSING METHODS – SHIPPER		
Top Flaps:		
Type: Pressure Sensitive Tape		
Width: 48 mm (2")		
Overlap: 2" Minimum		
Tape Pattern: Center Seam		
Inner Flaps: 4-1/2" Width Gap		
Outer Flaps: Meet		
Bottom Flaps:		
Type: Hot Glued; Customer Provided		
Inner Flaps: 4-1/2" Width Gap		
Outer Flaps: Meet		

COMPONENT INFORMATION

CLOSURE		Drawing
Manufacturer: REXAM Plastic Packaging (QIM-317-4937)		
Description:	38mm Threaded Closure	
Quantity:	6	
Material:	Polypropylene / White	
Density:	0.904 g/cc	
Tare Weight:	10.26 Grams	
Overall Dimensions:		
• Height	1.016" ± 0.015"	
• Diameter	1.701" ± 0.015"	
Thread:		
• Type	38mm	
• Style	439	
Finish Dimensions:		
• T	1.483" ± 0.007"	
• E	1.389" ± 0.007"	
Markings (QC Audit):	105	
LINER		
Description:	PE Foam Liner	
Tare Weight:	0.66 Grams	
Thickness:	0.054"	
Diameter:	1.371"	
PLASTIC BOTTLE		
Manufacturer: Berry Plastic Corp.: Anaheim, CA (D08-045)		
Description:	2.5 Liter Plastic Bottle	
Quantity:	6	
Material:	High Density Polyethylene	
Method of Mfgr:	Blow Molded	
Density:	0.948 g/cc	
Tare Weight:	208 Grams ± 8 Grams	
Capacity:		
• Rated	2.5 Liter	
• Overflow	2,462 Grams ± 24cc	
Overall Dimensions:		
• Height	11.637" ± 0.080"	
• Width	5.302" ± 0.080"	
• Depth	4.498" ± 0.080"	
Finish Dimensions:		
• T	1.461" ± 0.015"	
• E	1.367" ± 0.015"	
• Thread Pitch	0.1640"	
Wall Thickness:		
• Minimum	0.040"	
Markings (QC Audit):	DODD T16 4/09 1 SPI "2" HDPE Recycling Symbol	



SHIPPER		
Manufacturer: Temple-Inland: Ontario, CA		
Description:	Regular Slotted Container	
Material/Flute (Inner to Outer):	Double Wall Mottled White Fiberboard; B/C-Flute	
Basis Weight (Outer to Inner) Lbs./MSF:		
• Specification	42/26/30/26/42	
• Measured	40.8/29.1/32.3/28.0/41.0	
Combined Wt. of Facings:	114.1	
Tare Weight:	644 Grams	
Dimensions		
	Specification Dimensions (Inside)	Measured Dimensions (Outside)
• Length	13-5/8"	14-3/16"
• Width	9"	9-3/4"
• Height	11-3/4"	12-7/8"
Board Caliper (Nominal):	0.269"	
Manufacturer's Joint:	Inside Glued, 1-1/16" Lap	
Markings (QC Audit):	ART APPROVAL DATE: 08/27/09 7139122 9-8-09	

BOX CERTIFICATE		
	(A) Corrugated Manufacturer:	Temple-Inland
	(B) Structure:	Double Wall
	(C) Bursting Test	275 Lbs. Per Sq Inch
	(D) Min comb Wt Facings:	110 Lbs. Per M Sq Ft
	(E) Size Limit:	95"
	(F) Gross Wt Lt:	100 Lbs.
	(G) Location:	ONTARIO, CALIFORNIA, U.S.A.







SECTION III: TEST PROCEDURES AND RESULTS

DROP TESTS

Design #1 Taped Top and Bottom Flaps

TEST INFORMATION	CRITERIA FOR PASSING THE TEST
<p>TEST CONTENTS: Methanol/Water Solution (.955 SG)</p> <p>SAMPLE PREPARATION: Refer to Section II</p> <p>CONDITIONING: -18°C (0°F), Chamber #201</p> <p>TEST CONTENTS TEMP.: -18.1°C (-0.58°F)</p> <p>DROP HEIGHT: 1.9 Meters (75") (Refer to Section IV)</p> <p>TEST EQUIPMENT: L.A.B. Accu Drop 160 #301</p>	<ul style="list-style-type: none"> • For packaging containing liquid, each packaging does not leak. • There can be no damage to the outer packaging likely to adversely affect safety during transport and there is no leakage of the filling substance from the inner packaging. • Any discharge from a closure is slight and ceases immediately after impact with no further leakage. (§178.603)







DROP ORIENTATIONS & TEST RESULTS

Sample #1: Flat on Bottom	Sample #2: Flat on Top	Sample #3: Flat on Long Side
		
<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage or damage.</p>
Sample #4: Flat on Short Side	Sample #5: Bottom Corner	*Sample #1: Top Corner
		
<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage. Slight deformation to shipper on impact.</p>	<p>PASS: No leakage. Slight deformation to shipper on impact.</p>

*Sample used for Flat on Bottom Drop is also used for the Top Corner Drop

DROP TESTS **Design #2 Taped Top and Glued Bottom Flaps**

TEST INFORMATION	CRITERIA FOR PASSING THE TEST
TEST CONTENTS: Methanol/Water Solution (.955 SG) SAMPLE PREPARATION: Refer to Section II CONDITIONING: -18°C (0°F), Chamber #201 TEST CONTENTS TEMP.: -18.1°C (-0.58°F) DROP HEIGHT: 1.9 Meters (75") (Refer to Section IV) TEST EQUIPMENT: L.A.B. Accu Drop 160 #301	<ul style="list-style-type: none"> For packaging containing liquid, each packaging does not leak. There can be no damage to the outer packaging likely to adversely affect safety during transport and there is no leakage of the filling substance from the inner packaging. Any discharge from a closure is slight and ceases immediately after impact with no further leakage. <p style="text-align: right;">(\$178.603)</p>

DROP ORIENTATIONS & TEST RESULTS		
Sample #6: Flat on Bottom	Sample #7: Flat on Top	Sample #8: Flat on Long Side
		
PASS: No leakage or damage.	PASS: No leakage or damage.	PASS: No leakage or damage.
Sample #9: Flat on Short Side	Sample #10: Bottom Corner	*Sample #6: Top Corner
		
PASS: No leakage or damage.	PASS: No leakage. Slight deformation to shipper on impact.	PASS: No leakage. Slight deformation to shipper on impact.

*Sample used for Flat on Bottom Drop is also used for the Top Corner Drop

STACKING & STACKING STABILITY TESTS **Design #1 Taped Top and Bottom Flaps**

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS: Water SAMPLE PREPARATION: Refer to Section II CONDITIONING: 73°F / 50% RH, Chamber #202 TEST LOAD APPLIED: 725.7 Kg (1,600.0 Lbs.) (Refer to Section IV) TEST DURATION: 24 Hours TEST EQUIPMENT: L.A.B. Validator Compression System #403		<ul style="list-style-type: none"> • There must be no leakage of the filling substance from the inner receptacle, or inner packaging. • There can be no deterioration that could adversely affect transport safety or any distortion liable to reduce the package’s strength, cause instability in stacks of packages, or cause damage to inner packagings that is likely to reduce safety in transport. <p style="text-align: right;">(\$178.606)</p>

STACKING TEST SET UP AND RESULTS			
	Sample #	Maximum Deflection After 24 Hours	Results
	11	0.006”	PASS
	12	0.006”	PASS
	13	0.006”	PASS

STACKING STABILITY TEST SET-UP	CRITERIA FOR PASSING THE TEST
<p style="text-align: center;">PASS</p>	<p>In guided load tests, stacking stability must be assessed after test completion.</p> <ul style="list-style-type: none"> • Two filled packagings of the same type must be placed on the test sample. • The stacked packages must maintain their position for one hour. <p style="text-align: right;">(\$178.606)</p>

STACKING & STACKING STABILITY TESTS Design #2 Taped Top and Glued Bottom Flaps

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS: Water SAMPLE PREPARATION: Refer to Section II CONDITIONING: 73°F / 50% RH, Chamber #202 TEST LOAD APPLIED: 725.7 Kg (1,600.0 Lbs.) (Refer to Section IV) TEST DURATION: 24 Hours TEST EQUIPMENT: L.A.B. Validator Compression System #403	<ul style="list-style-type: none"> There must be no leakage of the filling substance from the inner receptacle, or inner packaging. There can be no deterioration that could adversely affect transport safety or any distortion liable to reduce the package's strength, cause instability in stacks of packages, or cause damage to inner packagings that is likely to reduce safety in transport. 	
		(\$178.606)

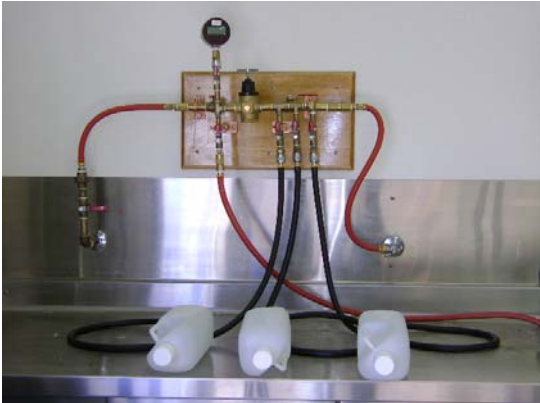
STACKING TEST SET UP AND RESULTS			
	Sample #	Maximum Deflection After 24 Hours	Results
	14	0.024"	PASS
	15	0.024"	PASS
	16	0.024"	PASS

STACKING STABILITY TEST SET-UP	CRITERIA FOR PASSING THE TEST
	In guided load tests, stacking stability must be assessed after test completion. <ul style="list-style-type: none"> Two filled packagings of the same type must be placed on the test sample. The stacked packages must maintain their position for one hour.
PASS	(\$178.606)

PRESSURE DIFFERENTIAL TEST

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS:	Water	<ul style="list-style-type: none"> • Packaging for which retention of liquid is a basic function must be capable of withstanding the pressure requirements without leakage. (§173.27)
FILL CAPACITY:	Maximum Capacity	
CLOSURE APPLICATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST PRESSURE:	300kPa	
TEST DURATION:	30 Minutes	
AREA OF PRESSURIZATION:	Through the Bottom	
TEST EQUIPMENT:	Regulated Water Source Gauge #602	

HYDROSTATIC PRESSURE TEST SET-UP & RESULTS


	Sample #	Results	Comments / Observations
	1	PASS	All three samples maintained the 300kPa test pressure for 30 minutes without leakage.
	2	PASS	
	3	PASS	

REPETITIVE SHOCK VIBRATION TESTS

Design #1 Taped Top and Bottom Flaps

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS:	Water	Immediately following the period of vibration, each package must be removed from the platform, turned on its side and observed for any evidence of leakage. <ul style="list-style-type: none"> • A packaging passes the vibration test if there is no rupture or leakage from any of the packages. • No test sample should show any deterioration which could adversely affect transportation safety or any distortion liable to reduce packaging strength. (\$178.608)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	73°F / 50% RH, Chamber #202	
TABLE DISPLACEMENT:	1"	
TEST FREQUENCY:	3.7 Hz	
TEST DURATION:	1 Hour	
TEST EQUIPMENT:	Vertical motion using L.A.B. Palletizer Transportation Simulator #501	


VIBRATION TEST SET-UP & RESULTS

	Sample #	Results	Comments / Observations
	11	PASS	No leakage or damage.
	12	PASS	
	13	PASS	

REPETITIVE SHOCK VIBRATION TESTS Design #2 Taped Top and Glued Bottom Flaps

TEST INFORMATION	CRITERIA FOR PASSING THE TEST
TEST CONTENTS: Water SAMPLE PREPARATION: Refer to Section II CONDITIONING: 73°F / 50% RH, Chamber #202 TABLE DISPLACEMENT: 1” TEST FREQUENCY: 3.6 Hz TEST DURATION: 1 Hour TEST EQUIPMENT: Vertical motion using L.A.B. Palletizer Transportation Simulator #501	Immediately following the period of vibration, each package must be removed from the platform, turned on its side and observed for any evidence of leakage. <ul style="list-style-type: none"> • A packaging passes the vibration test if there is no rupture or leakage from any of the packages. • No test sample should show any deterioration which could adversely affect transportation safety or any distortion liable to reduce packaging strength. (\$178.608)

VIBRATION TEST SET-UP & RESULTS

	Sample #	Results	Comments / Observations
	14	PASS	No leakage or damage.
	15	PASS	
	16	PASS	

COBB WATER ABSORPTION TESTS

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
SAMPLE SIZE:	(5) 5" x 5" Squares	<ul style="list-style-type: none"> An increase in mass greater than 155 g/m² over the 30 minute duration represents an unacceptable level of water resistance. (§178.516)
CONDITIONING:	73°F / 50% RH, Chamber #202	
WATER APPLIED:	100mL / Sample	
TEST DURATION:	30 Minutes / Sample	
TEST EQUIPMENT:	UWE Analytical Balance #102 Gurley Cobb Water Absorption Apparatus	

COBB WATER ABSORPTION TEST RESULTS	
Sample #	Water Absorbed (g/m ²)
1	105 g/m ²
2	127 g/m ²
3	109 g/m ²
4	108 g/m ²
5	114 g/m ²
AVERAGE:	112.6 g/m²
RESULT	PASS

REGULATORY AND INDUSTRY STANDARD REFERENCES

REGULATORY REFERENCES

TEST	49 CFR ^① 2008 Edition	UN ^② 15th Edition	IMDG ^③ 2008 Edition	ICAO ^④ 09-10 Edition	IATA ^⑤ 50th Edition
Drop:	178.603	6.1.5.3	6.1.5.3	6; 4.3	6.3.3
Stacking:	178.606	6.1.5.6	6.1.5.6	6; 4.6	6.3.6
Pressure:	173.27(c)	4.1.1.4.1	---	4; 1.1.6	5.0.2.9
Vibration:	178.608	---	---	4; 1.1.1	5.0.2.7
Cobb:	178.516	6.1.4.12.1	6.1.4.12.1	6; 3.1.11.1	6.2.12.2

- ① United States Department of Transportation Code of Federal Regulations (CFR) Title 49, Transportation, Parts 100-199
- ② The United Nations Recommendations on the Transport of Dangerous Goods — Model Regulations. (UN – Orange Book)
- ③ International Maritime Dangerous Goods Code (IMDG)
- ④ Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO)
- ⑤ International Air Transport Association (IATA) Dangerous Goods Regulations

INDUSTRY STANDARD REFERENCES

Drop:	ASTM ^⑥ D5276:	Standard Test Method for Drop Test of Loaded Containers by Free Fall
	ISO ^⑦ 2248:	Packaging – Complete, Filled Transport Packages – Vertical Impact Test By Dropping
Stacking:	ASTM ^⑥ D4577:	Standard Test Method for Compression Resistance of a Container Under Constant Load
	ISO ^⑦ 2234:	Packaging – Complete, Filled Transport Packages – Stacking Tests using Static Load
Vibration:	ASTM ^⑥ D999:	Standard Test Method for Vibration Testing of Shipping Containers
	ISO ^⑦ 2247:	Packaging – Complete, Filled transport Packages – Vibration Test at Fixed Low Frequency
Cobb:	ISO ^⑦ 535:	Paper and Board - Determination of Water Absorption - Cobb Method

- ⑥ American Society for Testing and Materials (ASTM)
- ⑦ International Organization for Standardization (ISO)

EQUIPMENT

All inspection, measuring and test equipment that can affect product quality is calibrated and adjusted at prescribed intervals, or prior to use, and is traceable to NIST, using ANSI Z540 as an overall guide for calibration certification.

SECTION IV: MATHEMATICAL CALCULATIONS

INFORMATION USED FOR CALCULATIONS

Overall Package Tare Weight (PTW):	1,967 Grams	
Overflow Capacity (OFC):		<u>Methanol/Water SG</u>
Methanol/Water	2,321 Grams	SG: 0.955
Water	2,430 Grams	
Number of Inner Packagings (# IP):	6	
Packing Group	II	
Product Specific Gravity (PSG):	1.9	
Packing Group Multiplication Factor (MF):	1.00	
Overall Height of one Package (OH):	12.88 Inches	
Stack Test-# of Samples Tested Simultaneously:	3	

98% OF OVERFLOW

Overflow Capacity (OFC) x 98%

<u>OFC</u>	x	<u>98%</u>		
2,321	x	98%	=	2,274 Grams Methanol/Water
2,430	x	98%	=	2,381 Grams Water

PACKAGE TEST WEIGHTS

Overall Pkg Tare Weight (PTW) + (98% Overflow Capacity (OFC) x # of Inner Pkg (# IP))

<u>PTW</u>	+	<u>(98% OFC)</u>	x	<u># IP</u>	
1,967	+	2,274	x	6	Methanol/Water
1,967	+	2,381	x	6	Water
Methanol/Water:		15.6	Kg	34.3	Lbs.
Water:		16.2	Kg	35.7	Lbs.

AUTHORIZED PACKAGE GROSS MASS CALCULATION (APGM)

Overall Pkg Tare Weight (PTW) + (Product SG (PSG) x 98% Overflow (OFC) x # of Inner Pkg (# IP))

<u>PTW</u>	+	<u>(PSG</u>	x	<u>98% OFC</u>	x	<u># IP</u>
1,967	+	1.9	x	2,381	x	6
		29.1	Kg	64.1	Lbs.	

DROP HEIGHT

Calculation For Product Specific Gravities Exceeding 1.2

Product Specific Gravity (PSG) x Packing Group Multiplication Factor (MF)

<u>PSG</u>	x	<u>MF</u>	<u>Packing Group: II</u>	
1.9	x	1.00	<u>Required Drop Height</u>	<u>Actual Drop Height</u>
		1.90 Meter	74.8 Inches	75 Inches

STACKING TEST MINIMUM LOAD CALCULATIONS

Number of Packages in a 3m High Stack (118 / Overall Pkg Height (OH) -1)

118 / Overall Height of one Pkg (OH) - 1

<u>(118</u>	/	<u>OH)</u>	-1	=	<u># 3m HS</u>
118	/	12.88	-1	=	8.2

Stacking Test Load Calculation (Individual Package)

Authorized Pkg Gross Mass (APGM) x # of Pkg in a 3m High Stack (# 3m HS)

<u>APGM</u>	x	<u># 3m HS</u>	
29.1	x	8.2	
		238.6 Kg	526.0 Lbs.

Stacking Test Load Calculation

Samples x Authorized Pkg Gross Mass (APGM) x # of Pkg in a 3m High Stack (# 3m HS)

<u>Samples</u>	x	<u>(APGM</u>	x	<u># 3m HS)</u>
3	x	29.1	x	8.2
		715.9 Kg		1,578.3 Lbs.