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Test Report Ref. No: 5F705VFR1215109

Customer:
PB Appro Diffusion
3, Rue Niepce
21 700 Nuits Saint Georges
France
Customer contact: Mr. Pascal Barrer
Phone.: +33 / (0) 380621540

UPS Account.: Ordered by: Maxime Cazelles, UPS

Test date: July 31st 2017

Samples received: June 29th 2017

Last test number: same

Last test date: 30.12.2015 - 08.02.2016

Product description: 1 Magnum-Bottle wine packaging	
Test bottles:	Magnum bottle typ Sparkling Wine 1.5I, "Grande Cuvee"
Shippment weight:	appr. 3.55 kg
Condition before test:	new

Sequence #	Test Method	necessity
1	Air conditioning DIN EN 2233	required
2	Identification of surfaces, edges and corners in accordance with DIN EN 22206	required
3	Vertical Impact Test DIN EN 22248	required

Task:

Packaging test to renew a general packaging certification for the 1 bottle wine packaging solution from PB Appro Diffusion (Europackwine), for bottles with 1.50 I capacity.

Acceptance criteria:

Packaging can be classified as sufficient for small parcel distribution system when:

- all terms and conditions of the signed certification agreements are met
- there are no visible damages on the items
- there are no broken or leaking bottles
- products are still functioning
- transport inner and outer packaging is still able to protect the items

Test results:

The test sample has passed the required test norm.

The permission to print a UPS certification recognition with the reference number 5F705VFR1215109 is provided until the end of August 2018.



Test procedure

Air-conditioning of the test samples DIN EN 2233

The packaging to be tested will be pre-air-conditioned in an air-condition chamber for at least 24 hours prior to the test. Air-condition preparation before the test is specified as an air-condition status of "E+20 °C / 60% r.H.

Description of the feature DIN - EN 22206

Norm describes the Edge, corner and Face from different Packaging shape:

Box Features (Square)

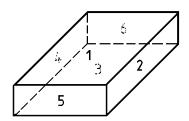
With box placed so that the manufacturer's joint is at the front right, number the faces clockwise with the top being face 1. The front face is 5 and the back is 6. Corners and edges ate identified by the faces meeting there.

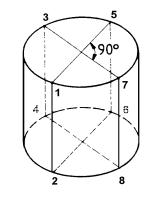
Cylindrical shape

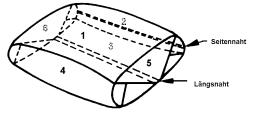
Four corners at the top: 1, 3, 5, 7, and four at the bottom: 2, 4, 6, 8. The line between this corners: 1-2, 3-4, 5-6, 7-8

Pouches and bags

With pouch or bag placed so that the fin seal is at the bottom and the lap seal at the front right. If there are two lap seals one must be left one at the right side with the top being face 1, the right face 2, at the bottom 3, right face 4, front 6.







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Vertical Impact Test (Free Fall) DIN - EN 22248

This Norm describes the procedure for conducting a free fall vertical impact test.

The Procedure in short

The packaged product is held over a rigid, smooth surface (impact surface) and allowed to fall freely onto it.

The impact surface must be horizontal and level, as well as sufficiently solid and rigid, such that it is neither movable nor deformable under the strains of the test.

The drop height is determined by the weight of the packaged product for manual handling per Norm (EN 24180-2):

	-	10 kg	80 cm
10 kg	-	20 kg	60 cm
20 kg	-	30 kg	50 cm
30 kg	-	40 kg	40 cm
40 kg	-	50 kg	30 cm
50 kg	-	70 kg	20 cm

Because of mechanical sort processes in single parcel distribution, packed products over 10 kg, except products with fluid content, will be tested from the drop height of 60 cm All packages containing fluid will be tested from the drop height 80 cm.

Steps:

10 times free fall in following order

a) Square shape

Corner drop	1 drop at one corner 2-3-5	1 x Croner
Edge drop		3 x Edge
Area drop	0 (5	6 x Area

b) cylindrical items

Area drop	Top, Bottom
Point drop	1, 3, 5, 7
Line drop	1-2. 3-4. 5-6. 7-8

c) sacks and bags

Area drop	1, 3
End drop	5, 5, 6, 6
Narrow side drop	2, 2, 4, 4

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Description of the tested product

Product description: 1 Magnum wine bottle

Bottle type / dimensions / weight:

Туре	Weight per bottle	Dimensions Ø x h
Magnum bottle typ Sparkling Wine 1.5l, "Grande Cuvee"	3.25 kg	Ø 113.3 mm, height: 395 mm

Package weight (gross): appr. 3.55 kg

Fragility: Robust G-value: over 110 G

Shipping container:

Description:

single – wall corrugated card board box similar to FEFCO 0201, without BMC.

Outer Proportions:

LxBxH: appr. 461 x 165 x 170 mm

Flute profile

B - Flute: $47 \pm 3/\text{ft}$. $155 \pm 10/\text{m}$

Card board composition, corrugation type, paper sort and mass per unit area:

Composition	Paper sort	Mass unit per (g/m²)
Outer liner / wall	Test Liner blanc	140
B – corrugation	Fluting recycled	140
Inner liner	Kraft Liner	110

Closure method:

PP self-adhesive tape, 50 mm, single stripe over seam

Manufacturer's joint:

Glued

Inner packaging:

Description:

EPS – Foam, 1 x EPS tray for one bottle as top and bottom protection.

o Proportions:

Each one EPS tray as top and bottom protection for one bottles, code 2807165

Proportions complete, 2 pieces: LxBxH: appr. 160 x 160 x 455 mm

Proportions 1/2 pieces:

LxBxH: appr. 158 x 87 x 455 mm

 Manufacturer: Appro Diffusion, Foam type / density: EPS 23kg/m³

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Test setup

Description of the drop test equipment:

Pneumatic Drop Tester with quick tripping Manufacturer: L.A.B. Equipment, Inc.

Model: AD-160A Serial Number: 291510

Max. Package Weight: 73kg (160lbs)

Max. Package Size: Depth 810mm (32") Width: No Restrictions Height: No Restrictions

Drop Height Range: 305mm (12") - 1829mm (72")



Sequence #	Test type		Observation	Result	
1	Form definition DIN EN 22206			√	
2	Air conditioning DIN EN 2233 Air-pressure: 1005 hPa Humidity: 59 % Temperature: 24° C			V	passed
			Vertical Impact Test DIN – EN 22248 observation	Remark	Result
	1	80 cm	no comment, no damages	test continued	
	2	80 cm	no comment, no damages	test continued	
	3	80 cm	no comment, no damages	test continued	
3	4	80 cm	no comment, no damages	test continued	
	5	80 cm	no comment, no damages	test continued	
	6	80 cm	no comment, no damages	test continued	
	7	80 cm	no comment, no damages	test continued	
	8	80 cm	no comment, no damages	test continued	
	9	80 cm	no comment, no damages	test continued	
	10	80 cm	no comment, no damages	test completed	passed

Visual audit:

No broken or leaking bottles were detected.



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Result:

Outer packaging:

sufficient

Closure:

sufficient

Cushioning:

sufficient

Immobilization:

sufficient

		bottle type			
		Schlegel	Burgunder	Bordeaux	Sparkling wine
	0.51	X	X	X	X
Capacity	0.751	X	X	X	X
Cap	1.01	X	X	X	X
	1.51	V	>	V	>

The DIN / EN 22248 test verified that the tested package passed the specified criteria successfully.

Advice:

After any kind of modification, please send us a new test object.

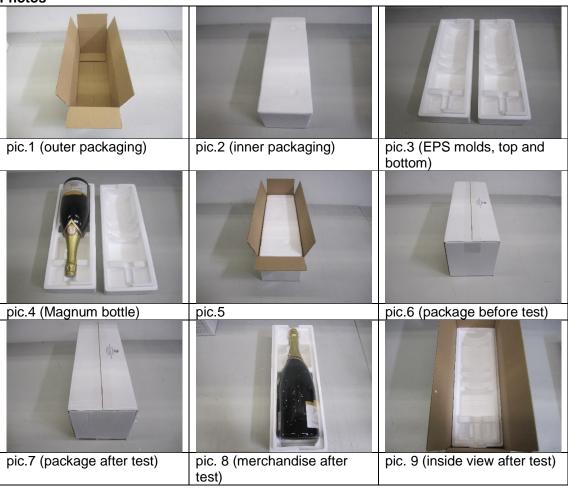
For further information contact us under telephone / address given on page 1.

Neuss, July 31st 2017

Martin Seburschenich



Photos



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Attachment

- 1. The short expertise is only valid for shipments with UPS if they are in accordance with the conditions listed in the short expertise. External packaging, internal packaging and sealing must be in accordance with the description in the short expertise.
- 2. The packaging test in the short expertise can only be used with the products described in the short expertise. The conditions listed in the short expertise are based on new products if not stated otherwise. The tested packaging is a one-way packaging if not agreed otherwise and can only be used once for shipments.
- 3. The sender must always make the damaged packaging available to UPS for investigation in case of a damage claim. In addition, the sender is obligated to inform UPS immediately about changes that were made to packaging and product described in the short expertise. An appropriate test packaging or a new sample must be made available immediately to UPS for investigation in case changes are made.
- 4. A liability for the damages during the transport may possibly be accepted based on the UPS transport conditions if the packaging investigated in the above mentioned short expertise was found adequate after an individual test. Hidden damages are in principle not subject to a liability obligation based on the short expertise or the UPS transport conditions. Packaging that are not classified as adequate cannot be transmitted to UPS for shipment. UPS does not assume any liability obligation in case of non-compliance.
- 5. The transport and service limitations listed in the UPS transport conditions apply if no other written agreements have been made with UPS.
- 6. The packaging test or the short expertise is based on the drop test guidelines in accordance with DIN EN ISO 22206 and DIN EN ISO 22248.
- 7. The determinations in the short expertise are valid until retraction, however, not longer than two years after establishment.
- 8. The expertise is only valid for the company listed in the expertise.
- 9. <u>CONFIDENTIALITY NOTICE:</u> The information contained in and accompanying this document may be privileged or confidential and is intended solely for the use of the intended recipient(s).

Publishing of this document is not allowed.

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