Report No, JBL-202202-0133PE

JAPAN BUSINESS LOGISTICS PACKAGING TEST REPORT

TEST PURPOSE: ISTA 6 FedEx- A
Evaluation test for the product & packagingCLIENT: Panasonic CorporationSPECIMEN: VIXELL : AE-V12UXR/AE-V12C5RTEST LABORATORY: Japan Business Logistics Co., Ltd.TEST DATE: Mar. 4, 2022ISSUE DATE: Mar. 31, 2022OPERATOR: Takehiko Iwahori

3Prepared by :

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Approved by :

K. Omata

Manager of Packaging Solution Japan Business Logistics Co., Ltd.



1.0 TEST DESCRIPTION

TEAT	To assess the capability of the product & packaging to withstand types of					
TEST	vibration and shock levels encountered during the normal shipping cycle in					
PURPOSE	accordance with ISTA 6 FedEx- A					
	VIXELL : AE-V12UXR/AE-V12C5R					
	Package Type : Plastic	Case	TEST SPECIMEN			
TEST SPECIMENS	Packaged Size: 480 x 3	50 x 355(H) mm				
	Packaged-Weight: 12.6	3 kg				
	Number of Test Specim	en : 1 pc				
	TEST STANDARD : IS	STA 6 FedEx-A				
	1、 Shock (Drop)					
TEST	2、Compression					
SEQUENCE	3、Vibration					
	4、 Shock (Drop)					
	Criteria	Product is dama	ge-free			
Acceptance Criteria	Method used to determine Pass/Fail		will be determined by visual function test after the all test lucted.			
	Decision Person	Panasonic Corporaion				

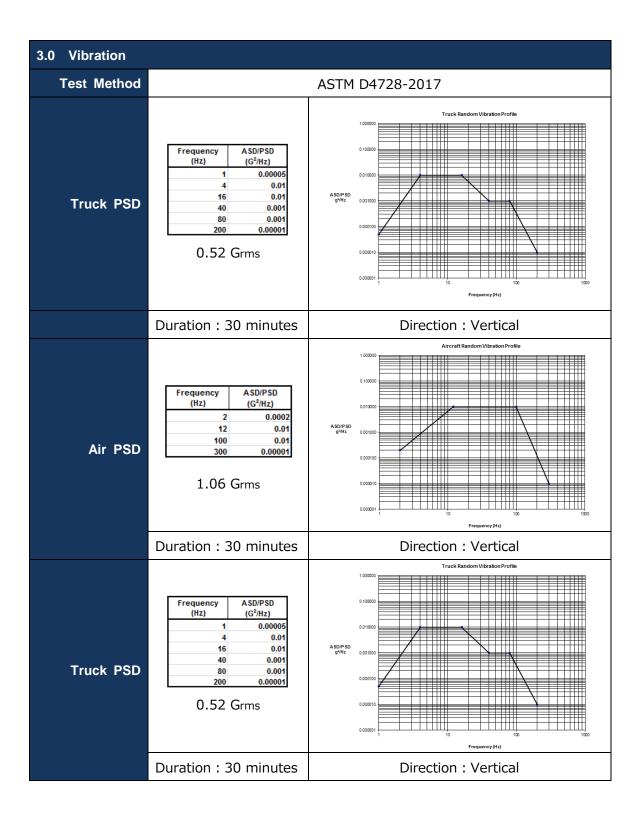
2.0 TEST DESCRIPTION

1.0 Shock (Drop))							
Number of drops	10 times							
	Drop No,	Drop Height (mm)	Orientation					
	No.1	762	Most fragile corner	Corner 2-3-5				
	No.2	762	Shortest edge radiating from the drop corner	Edge 2-5				
	No.3	762	Medium edge radiating from the drop corner	Edge 3-5				
Conditions	No.4	762	Longest edge radiating from the drop corner	Edge 2-3				
	No.5	762	Flat one of the smallest faces	Face 5				
	No.6	762	Flat one of the opposite small face	Face 6				
	No.7	762	Flat one of the medium faces	Face 2				
	No.8	762	Flat one of the opposite medium face	Face 4				
	No.9	762	Flat one of the largest faces	Face 1				
	No.10	762	Flat one of the opposite large face	Face 3				
Test Date	Mar. 4, 2022							
Equipment	Free Fall Drop Tester (Lansmont Model: PDT-56ED)							
Calibration date	Nov 24, 2021 (Calibration due: Nov 24, 2022)							

1 ~ 10 : Drop Number



2.0 Compression	2.0 Compression							
Number of	1 time							
Compression	1 time							
Direction	Vertical							
Speed	12.7 mm / min (0.5 in / min)							
	Compression Load (pounds) = 0.007×(108-H)×L×W×F							
	H: Height of shipping unit (inches)							
	L: Length of shipping unit (inches)							
Compression								
Load								
	= 0.007 x (108-17.7) x 21.5 x 19.5 x 3							
	= 795 pounds							
	= 361 kgf							
Test Date	Mar. 4, 2022							
Equipment	Orientec CTM-1-5000							
Calibration date	Oct. 25, 2021 (Calibration due: Oct. 25, 2022)							



Duration	International Shipments_Regular		
Duration	90 minutes (Truck_30 min. \rightarrow Air_30 min. \rightarrow Truck_30min.)		
Test Date	Mar. 4, 2022		
Equipment	Vibration Tester (Shinken Co.,Ltd. Model: G-9250L)		
Calibration date Jul. 28, 2021 (Calibration due: Jul. 28, 2022)			

4.0 Shock (Drop))							
Number of drops	10 times							
	Drop No,	Drop Height (mm)	Orientation					
	No.1	762	Most fragile corner	Corner 2-3-5				
	No.2	762	Shortest edge radiating from the drop corner	Edge 2-5				
	No.3	762	Medium edge radiating from the drop corner	Edge 3-5				
Conditions	No.4	762	Longest edge radiating from the drop corner	Edge 2-3				
	No.5	762	Flat one of the smallest faces	Face 5				
	No.6	762	Flat one of the opposite small face	Face 6				
	No.7	762	Flat one of the medium faces	Face 2				
	No.8	762	Flat one of the opposite medium face	Face 4				
	No.9	762	Flat one of the largest faces	Face 1				
	No.10	762	Flat one of the opposite large face	Face 3				
Test Date	Mar. 4, 2022							
Equipment	Free Fall Drop Tester (Lansmont Model: PDT-56ED)							
Calibration date	Nov 24, 2021 (Calibration due: Nov 24, 2022)							

2 ~ 🕦 : Drop Number



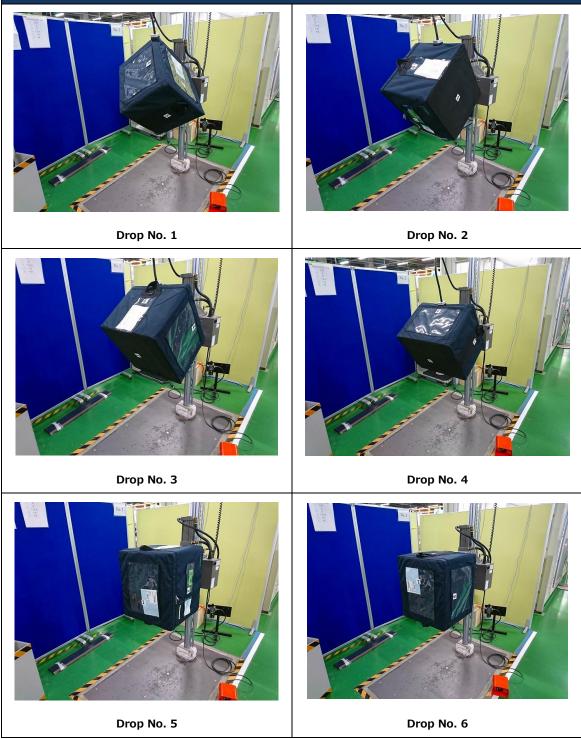
3.0 TEST RESULT

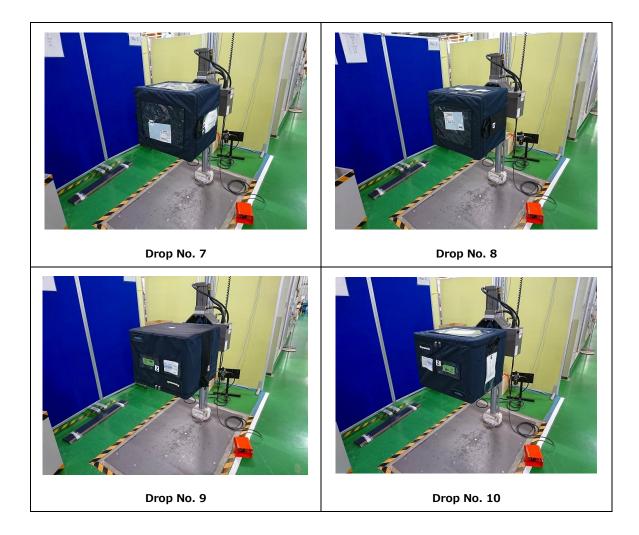
	Visual inspection was conducted after all test schedules		
PACKAGE Condition after testing	were completed.		
	No physical damage was found on the plastic case.		
PRODUCT Condition after testing	Final inspection will be conducted by Panasonic Corporation.		
To do so la	After the final inspection by Panasonic Corporation, the		
Test result	result was a pass.		



4.0 PHOTO

Shock (Drop)









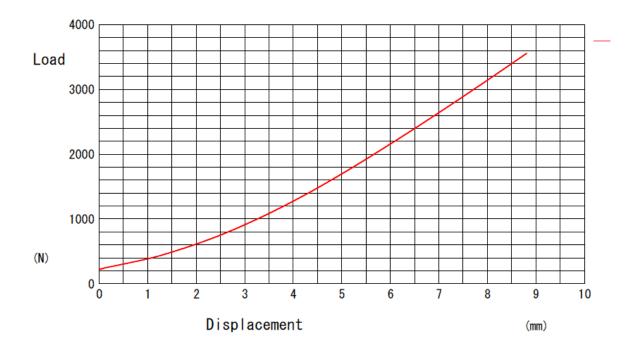


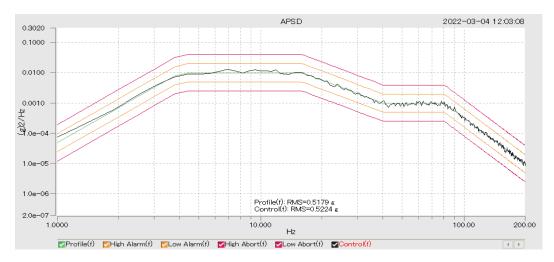
5.0 TEST DATA

Compression

Name	AE-V12U	AE-V12UXR/AE-V12C5R					Lot	Apply & Release
Date	2022年0	3月04日 10	:51 F	File	No.	S28-044	Tester	S.Kojima
					_			
	Max	Max	Max	X		+		

No. (kgf)		Load (N)	Displecement (mm)	
1	362.88	3558.7	8.8100	





Vibration Truck Random (30 min)

Air Random (30 min)

