



Taiwan Testing and Certification Center,  
Address: No.555, Sec. 2, Wenhua 3rd Rd.,  
Linkou Dist., New Taipei City 244, Taiwan (R.O.C.)  
TEL:02-2601-9016 FAX:02-2601-9150  
<http://www.etc.org.tw>



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# TEST REPORT

Rep. No. : 24-08-RBD-005  
Applicant : GAINTA INDUSTRIES LTD.  
Address : 1F., No.30, Lane 54, Chung Cheng Road, Hsin Tien District, 23146 New Taipei City, Taiwan  
Commodity : Sealed Plastic Box (PC)  
Model : P20793-IP68  
Serial Model : P20883-IP68 、 P2393-IP68 、 P2393MF-IP68  
Quantity : 3 sets  
Date of Receipt : 2024-08-02  
Date of Testing : 2024-08-08~2024-08-21  
Issue Date : 2024-08-23  
Test Specification : IEC 60529:1989+A1:1999+A2:2013  
Ambient Environment : Temp. 29.6 °C, 53.7 % R.H., A.P. 988 mbar  
Test Item : IP68  
Test Condition & Result : See the following sheets



## General remarks :

If the testing methods or standards based on this laboratory have limited values or judgment standards, the test results will be based on the testing methods or standards as compliance judgments, and the measurement uncertainty will be based on the methods or specifications of the testing standards.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

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Tested by : Chris Chien  
Chris Chien

Approved by : Simon Hsiao  
Simon Hsiao

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## 1. Test Item : IP68

## 2. Test Conditions :

### 2.1 Ambient Condition (In accordance with IEC 60529 test)

- Temperature Range : 15 °C to 35 °C
- Relative Humidity : 25 % to 90 %
- Air Pressure : 860 mbar to 1060 mbar

### 2.2 IP6X (In accordance with IEC 60529 test)

- Dust : Talcum powder
- The amount of dust : 2 kg/m<sup>3</sup>
- Maximum depression of 2 kPa.(20 mbar).
- The duration of the test is 8 hours  
(Extraction rate of 40 to 60 volumes per hours)

### 2.3 IPX8 (In accordance with IEC 60529 test)

- The lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water.
- The duration of the test is 60 min.
- The water temperature does not differ from that of the equipment by more than 5 K.

## 3.Test Result :

Test Item	Test Sample	Results	Acceptance Criteria
IP6X	Sealed Plastic Box (PC) P20793-IP68	There is no trace of dust inside	Refer to the test specification on page 1 of the report
IPX8	Sealed Plastic Box (PC) P20793-IP68	There is no trace of water inside	Refer to the test specification on page 1 of the report
IP6X	Sealed Plastic Box (PC) P20883-IP68	There is no trace of dust inside	Refer to the test specification on page 1 of the report
IPX8	Sealed Plastic Box (PC) P20883-IP68	There is no trace of water inside	Refer to the test specification on page 1 of the report
IP6X	Sealed Plastic Box (PC) P2393-IP68	There is no trace of dust inside	Refer to the test specification on page 1 of the report
IPX8	Sealed Plastic Box (PC) P2393-IP68	There is no trace of water inside	Refer to the test specification on page 1 of the report



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## Explanation of differences between series models ( FOR P2XX-IP68 )

Our company GAINTA INDUSTRIES LTD. confirms that the following records are completely consistent with the facts. If the following records are untrue, we are willing to bear all disputes arising from the following untrue records.

1. Apply for model name : P20793-IP68 、 P20883-IP68 、 P2393-IP68 、 P2393MF-IP68

2. Description of model differences :

Model	P20793-IP68	P20883-IP68	P2393-IP68	P2393MF-IP68	
Evaluation items					
shell material	○	○	○	○	
Internal copper wire thickness	N/A	N/A	N/A	N/A	
Use wires and materials	○	○	○	○	
Component location, routing, structure	○	○	○	○	
Exterior color	×	×	×	×	
other instructions	DIFFERENT SIZE	DIFFERENT SIZE	DIFFERENT SIZE	DIFFERENT SIZE	
Note : (1) completely consistent“○”. (2) Not entirely consistent“×”. Description column explains the differences.					
Description column: 1. THE DIFFERENCE BETWEEN P20793-IP68 & P20883-IP68 IS THE HEIGHT OF COVER ONLY . 2. THE DIFFERENCE BETWEEN P2393MF-IP68 & P2393-IP68 IS THE FLANGE IN THE BASE .					

3. In addition to the above facts, the documents submitted by our company for type approval from the Taiwan Commodity Testing and Inspection Center only provide models with different parts. The unattached parts indicate that they are completely consistent with other models. We hereby explain that

4. The above description is provided by our company. If there is any untrue, our company will be solely responsible for any resulting problems.

Writer of Tachikiri knot ( Company Name ) : GAINTA INDUSTRIES LTD. Company seal :

Address : \_1F., No. 30, Lane 54, Chung Cheng Road, Hsin Tien District, 23146 New Taipei City, Taiwan, R.O.C.\_

Contact person : \_MR. JACKY SUNG\_

Principal : \_MRS. JHANG, LI-SIANG\_

TEL : \_+886-2-29122561\_

FAX : \_+886-2-29122559\_

Date: 2024/8/23





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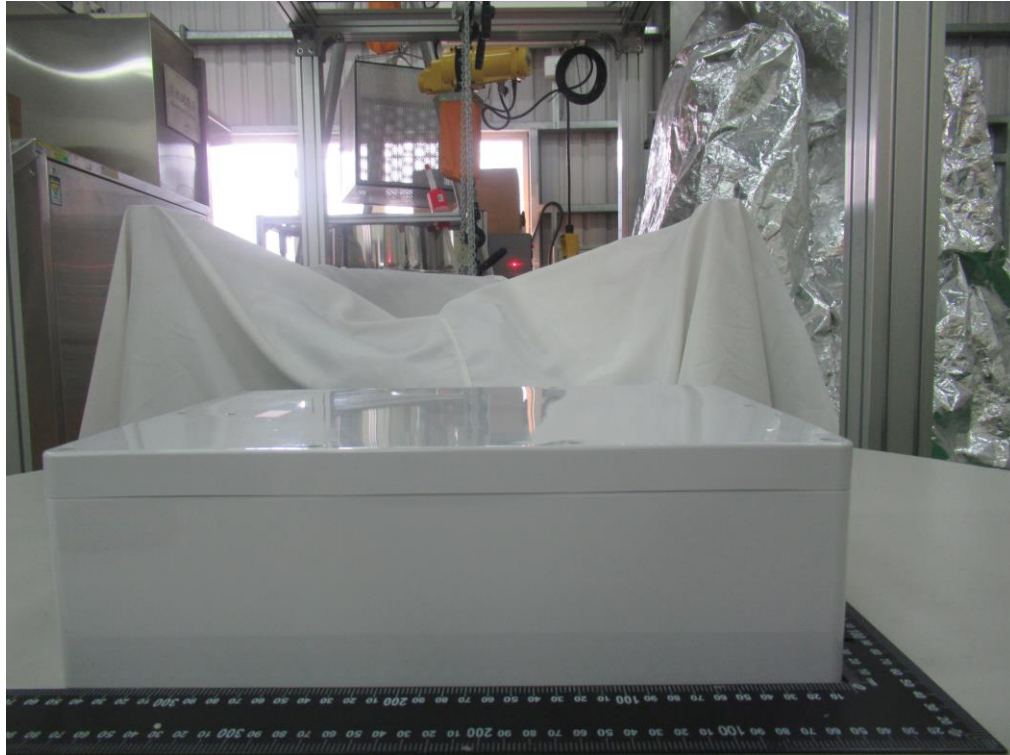
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## Utilized Testing Equipments

	Test Mode	Kind of Instrument Precision Class	Manufacturer	Model Serial No.	Due Date
	IP1X	Test Sphere (50 mm)	ASIA	TSP-01 (7060307)	2026/06/04
	IP2X	Test Finger (12.5 mm)	ASIA	TFP-1 (7022001)	2026/02/07
	IP3X	Test Rod, 2.5 mm (D) x 100 mm (L)	ASIA	TRP-01 (7060309)	2026/06/04
	IP4X	Test Rod, 1 mm (D) x 100 mm (L)	ASIA	TRP-02 (7060310)	2026/06/04
✓	IP5~6X	Dust Test Chamber	CHTEK	CH-7139-C22 (CH-7139C22-170604)	2025/06/09
	IPX1~2	Drip Box	CHTEK	CH-2010-S6 (CH-2010S6-170603)	2024/10/14
	IPX3~4	Oscillating Tube	CHTEK	CH-2010-S6 (CH-2010S6-170603)	2024/10/14
	IPX5~6	Hose Nozzle	CHTEK	CH-2010-S6 (CH-2010S6-170603)	2024/10/14
✓	IPX7~8	Metel Water Sink	CHTEK	CH-2010-78 (CH-2010-78-170607)	N/A
	IPX7~8	Metel Water Sink	Chien Feng	ST-7900	N/A
✓		Temperature recorder	GRAPHTEC	GL840 (C60321147)	2024/11/19
✓		Stop Watch	Casio	403Q25R	2026/06/03
✓		Tape Measure	TK-P	10M	2025/03/18
✓		Temperature and Humidity Atmospheric Pressure Gauge	KIMO	KPA-320	2025/06/06



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Sealed Plastic Box (PC) P20793-IP68 Side view 1



Sealed Plastic Box (PC) P20793-IP68 Side view 2



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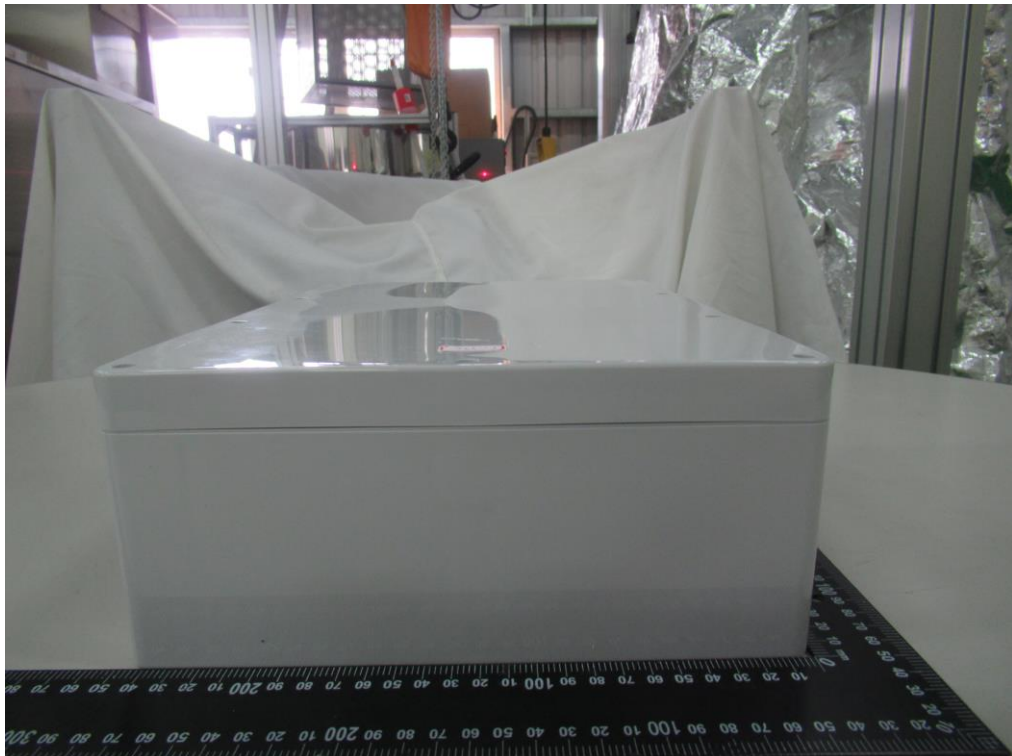
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Sealed Plastic Box (PC) P20793-IP68 Side view 3



Sealed Plastic Box (PC) P20793-IP68 Side view 4

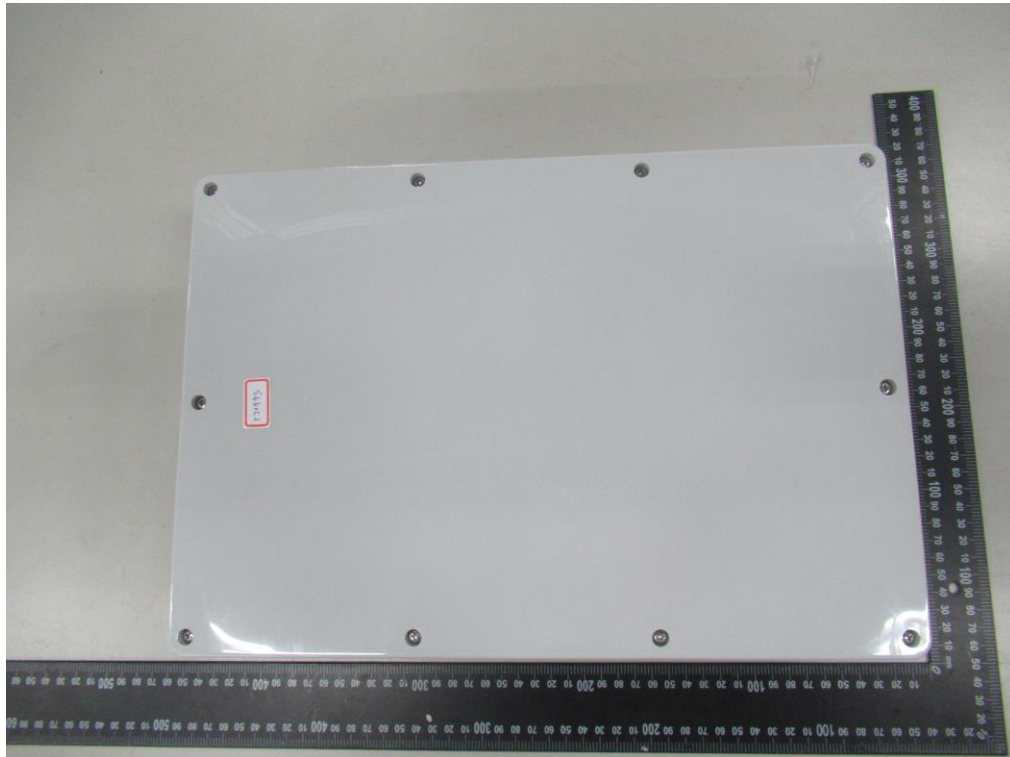


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Sealed Plastic Box (PC) P20793-IP68 Side view 5



Sealed Plastic Box (PC) P20793-IP68 Side view 6





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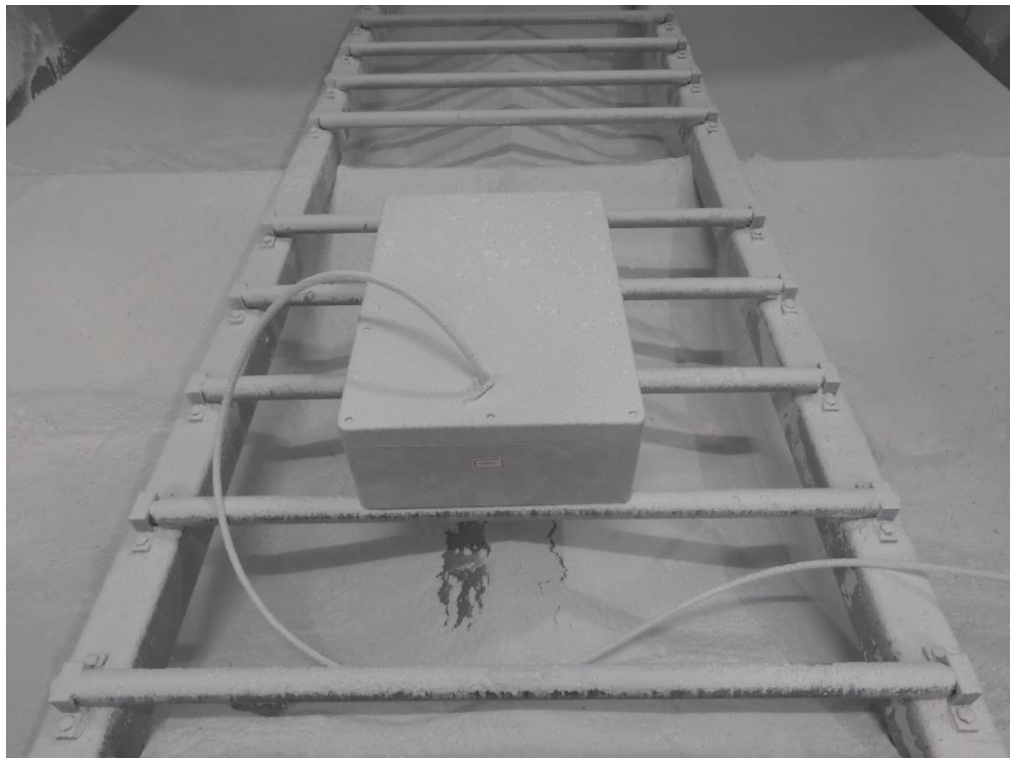
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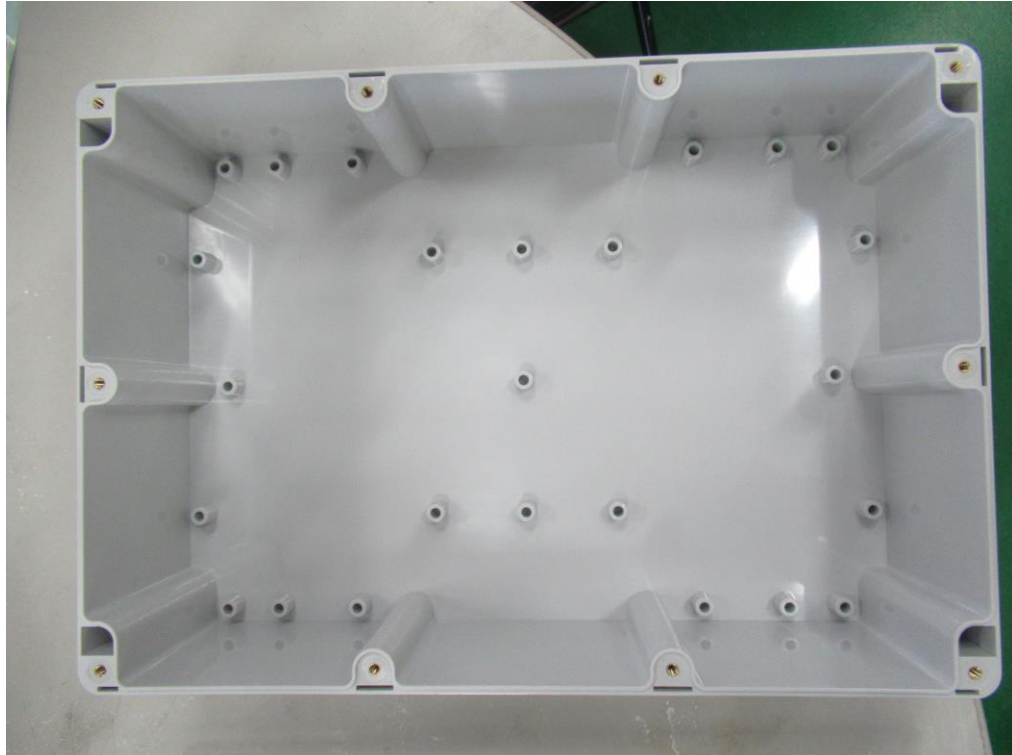
IP6X Test



IP6X Test



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Sealed Plastic Box (PC) P20793-IP68  
IP6X Test - There is no trace of dust inside



Sealed Plastic Box (PC) P20793-IP68  
IP6X Test - There is no trace of dust inside

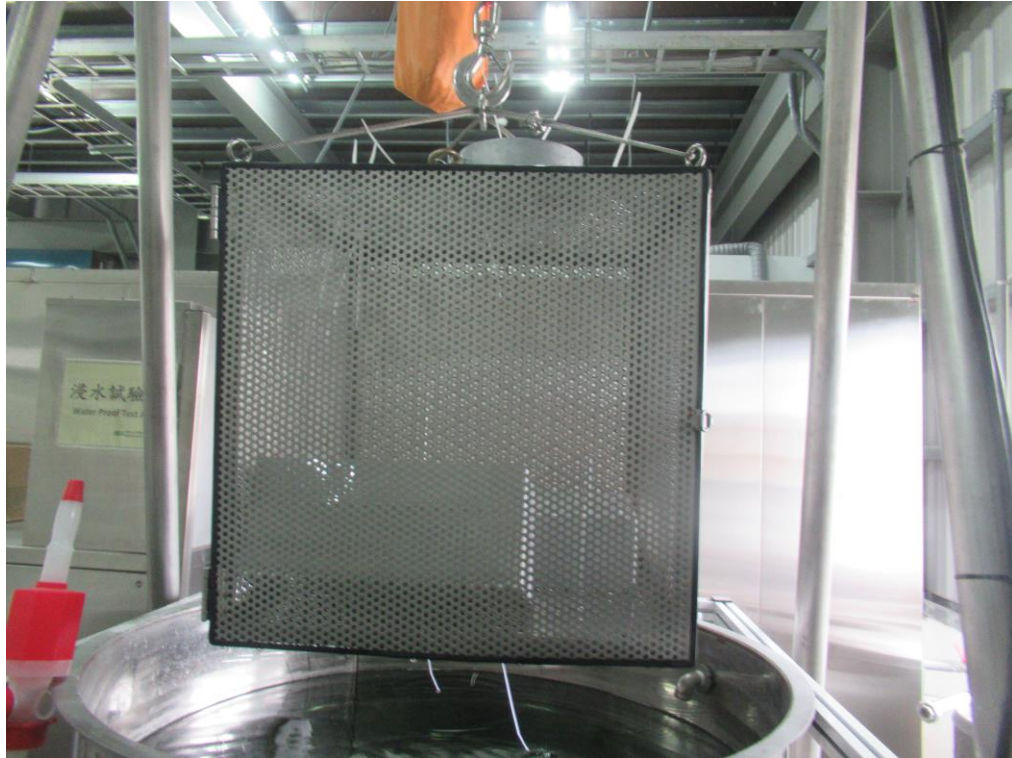


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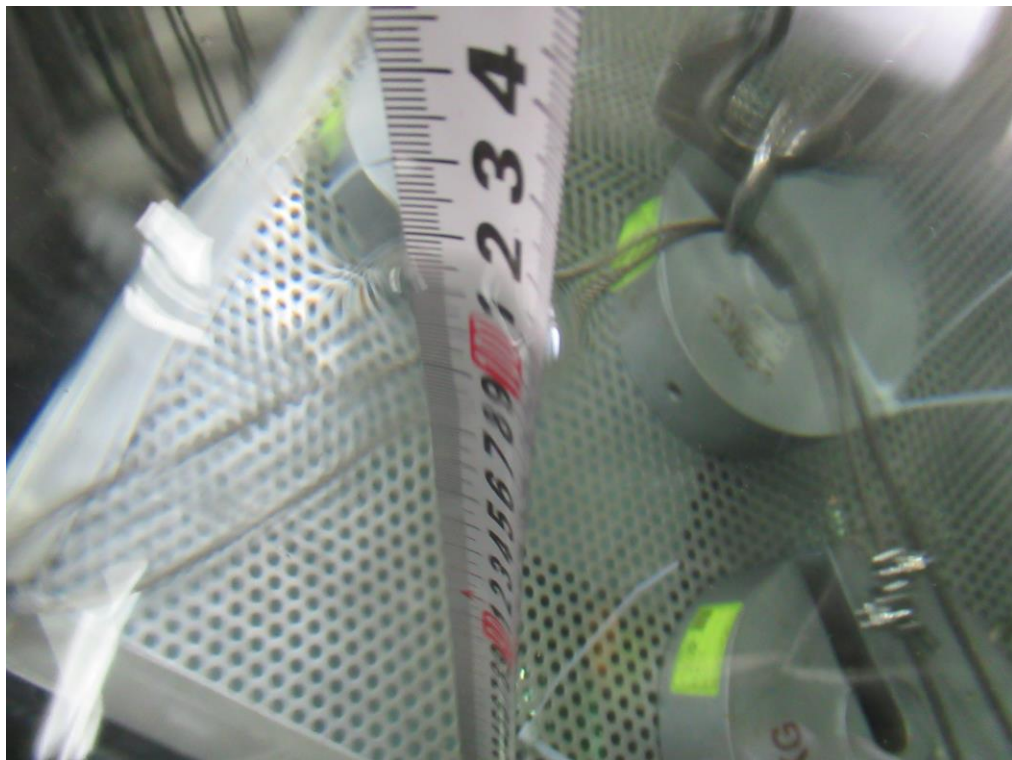
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IPX8 Test



IPX8 Test



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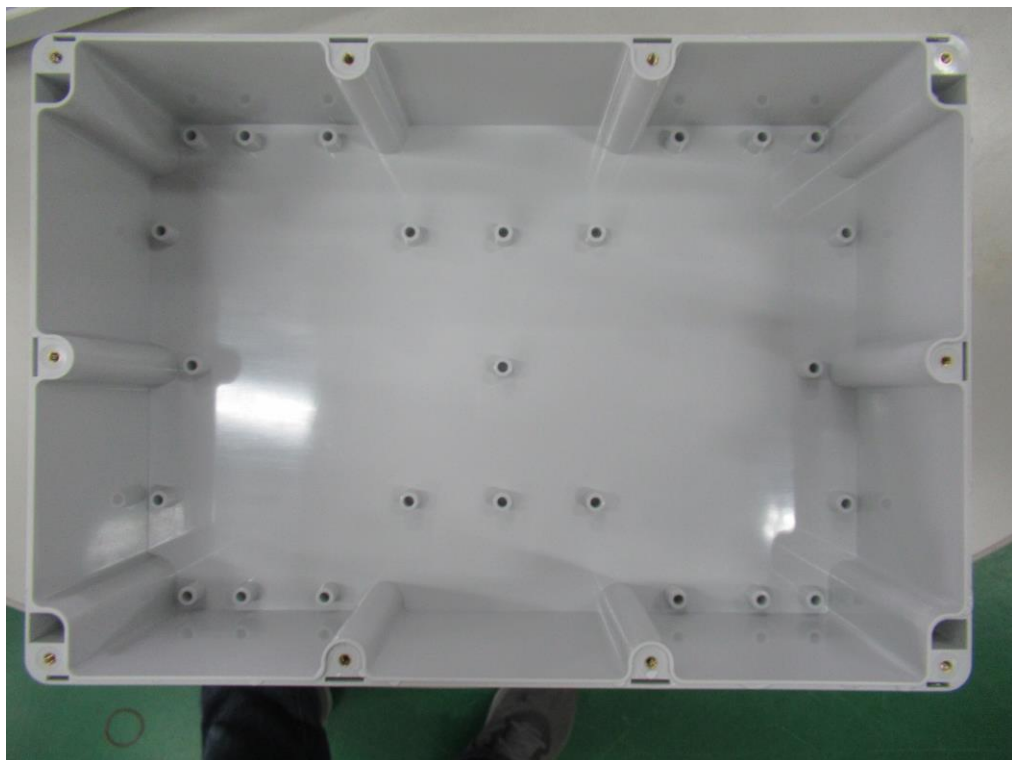
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Sealed Plastic Box (PC) P20793-IP68  
IPX8 Test - There is no trace of water inside



Sealed Plastic Box (PC) P20793-IP68  
IPX8 Test - There is no trace of water inside



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Sealed Plastic Box (PC) P20883-IP68 Side view 1



Sealed Plastic Box (PC) P20883-IP68 Side view 2





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Sealed Plastic Box (PC) P20883-IP68 Side view 3



Sealed Plastic Box (PC) P20883-IP68 Side view 4

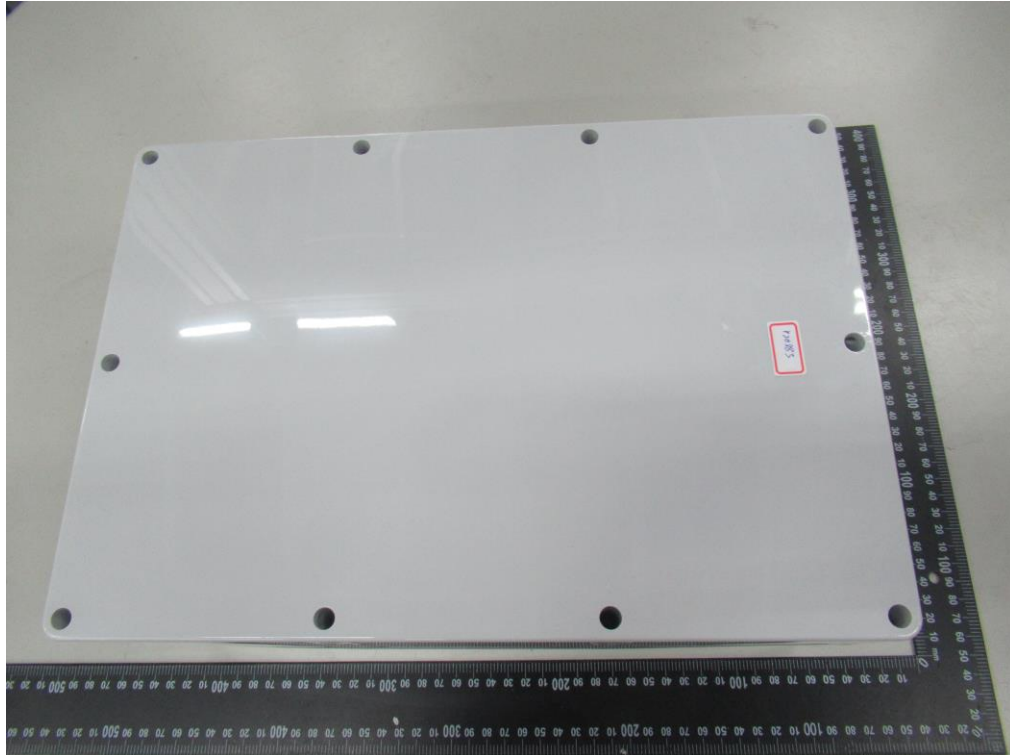


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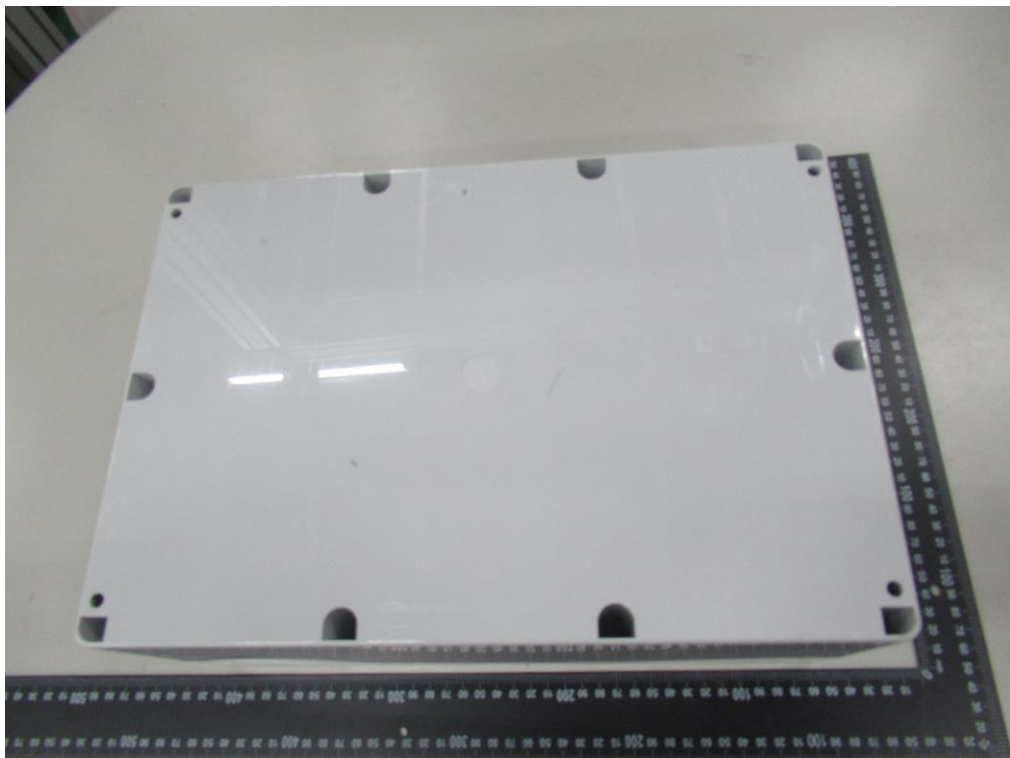
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Sealed Plastic Box (PC) P20883-IP68 Side view 5



Sealed Plastic Box (PC) P20883-IP68 Side view 6

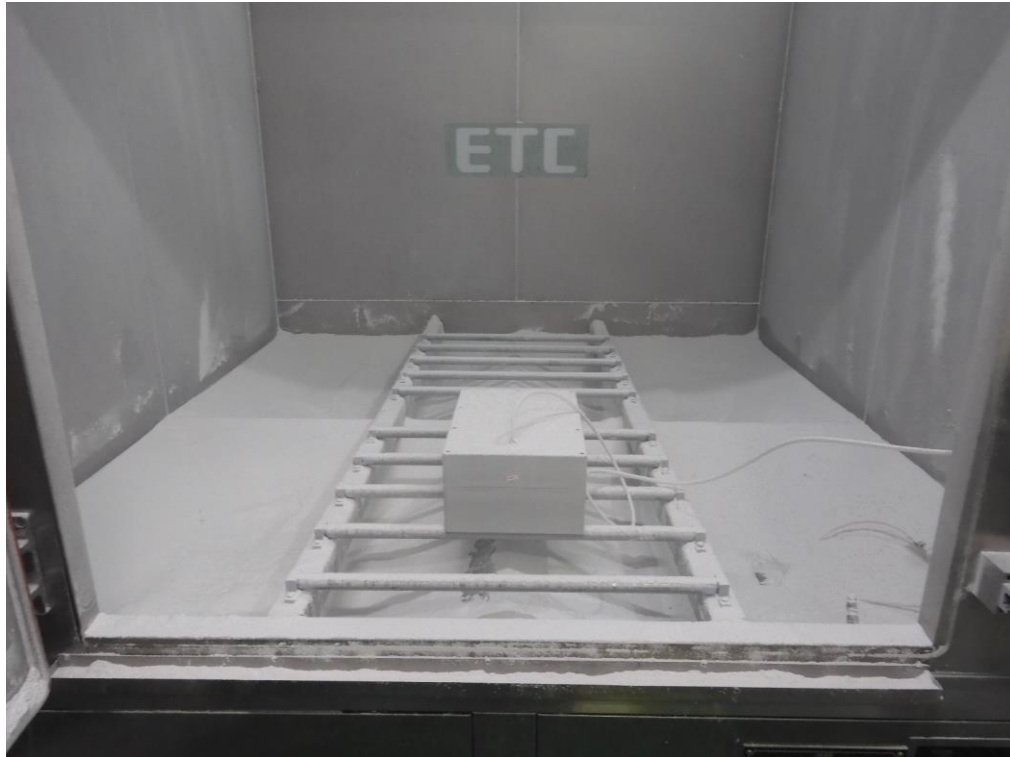


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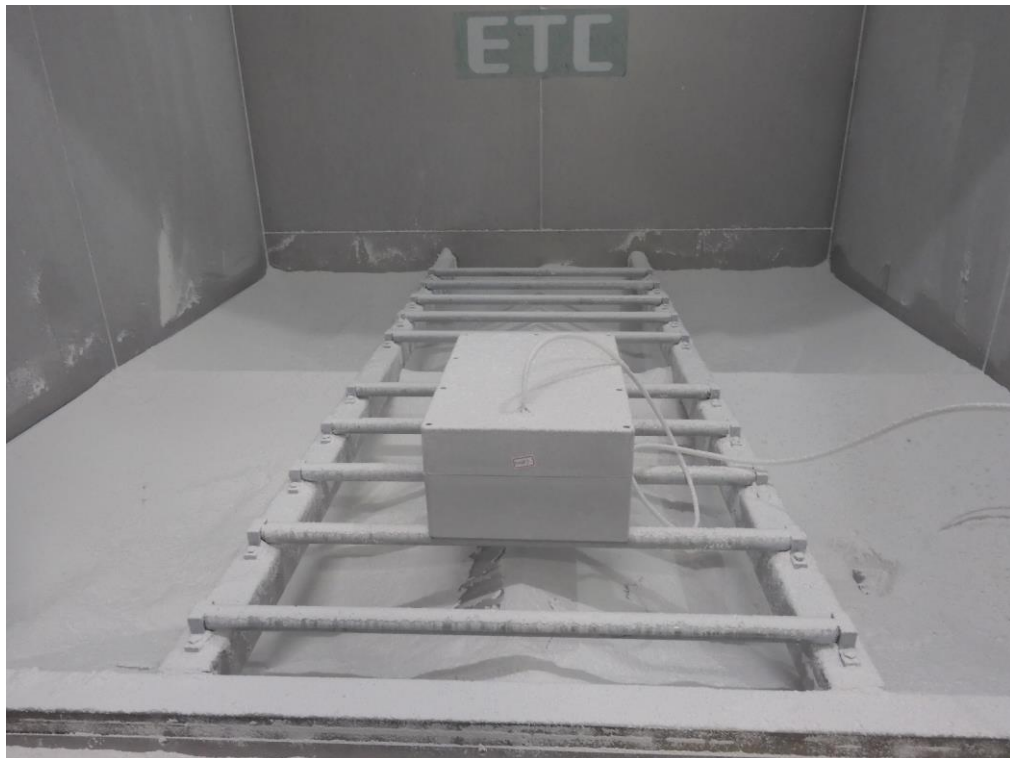
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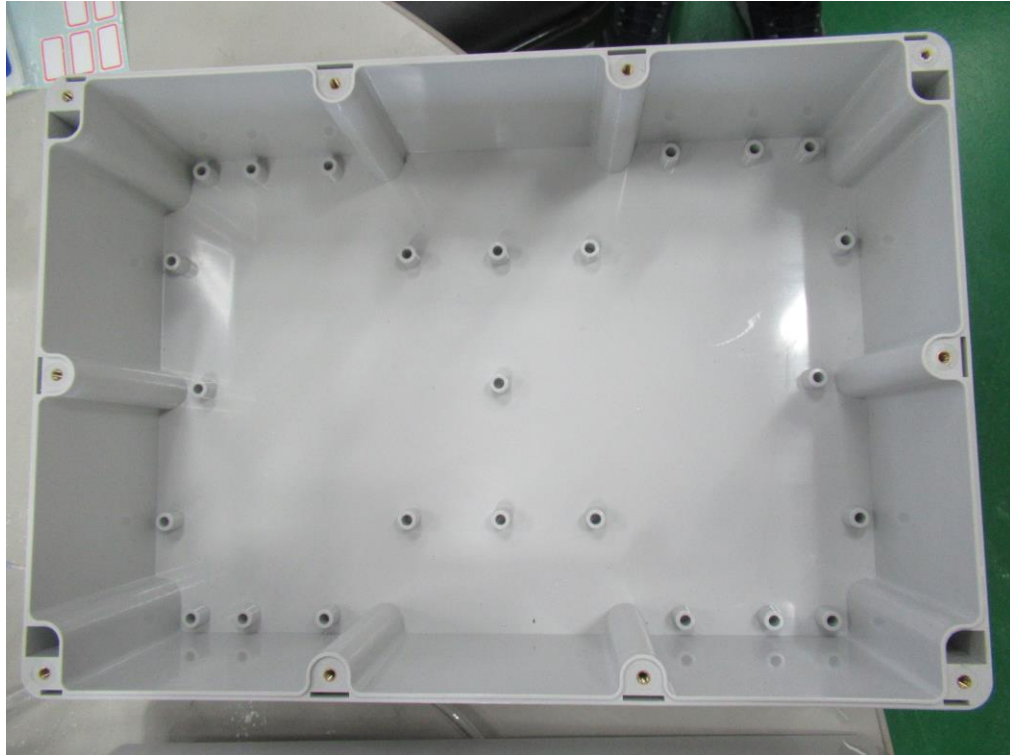


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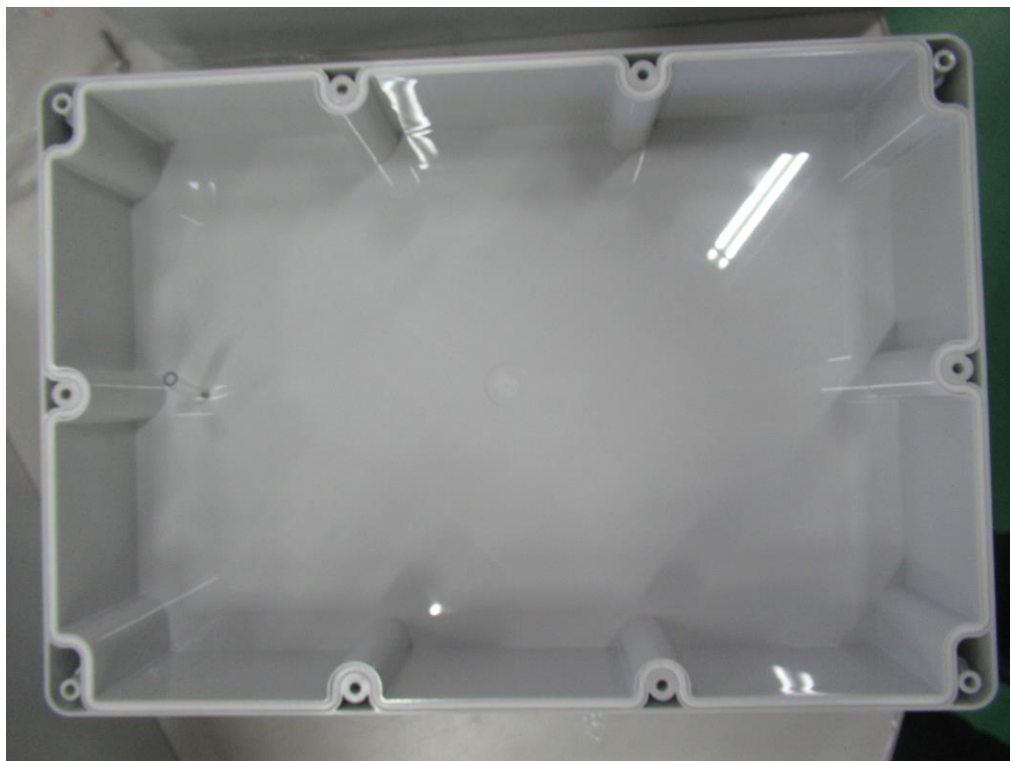


IP6X Test

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Sealed Plastic Box (PC) P20883  
IP6X Test - There is no trace of dust inside



Sealed Plastic Box (PC) P20883  
IP6X Test - There is no trace of dust inside



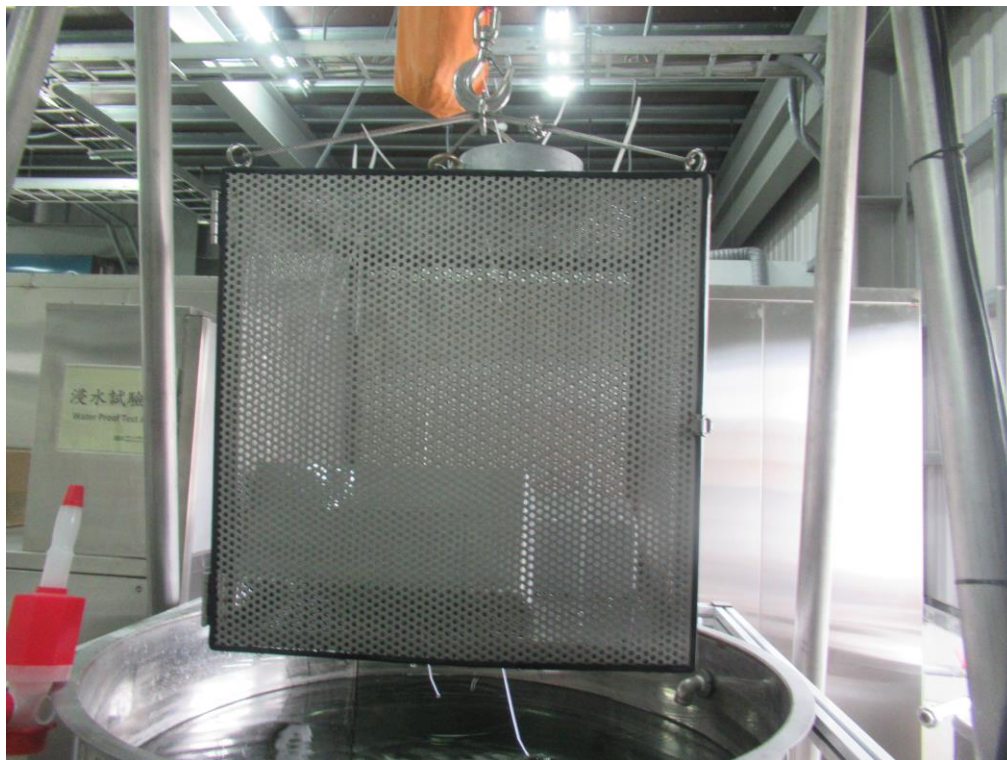


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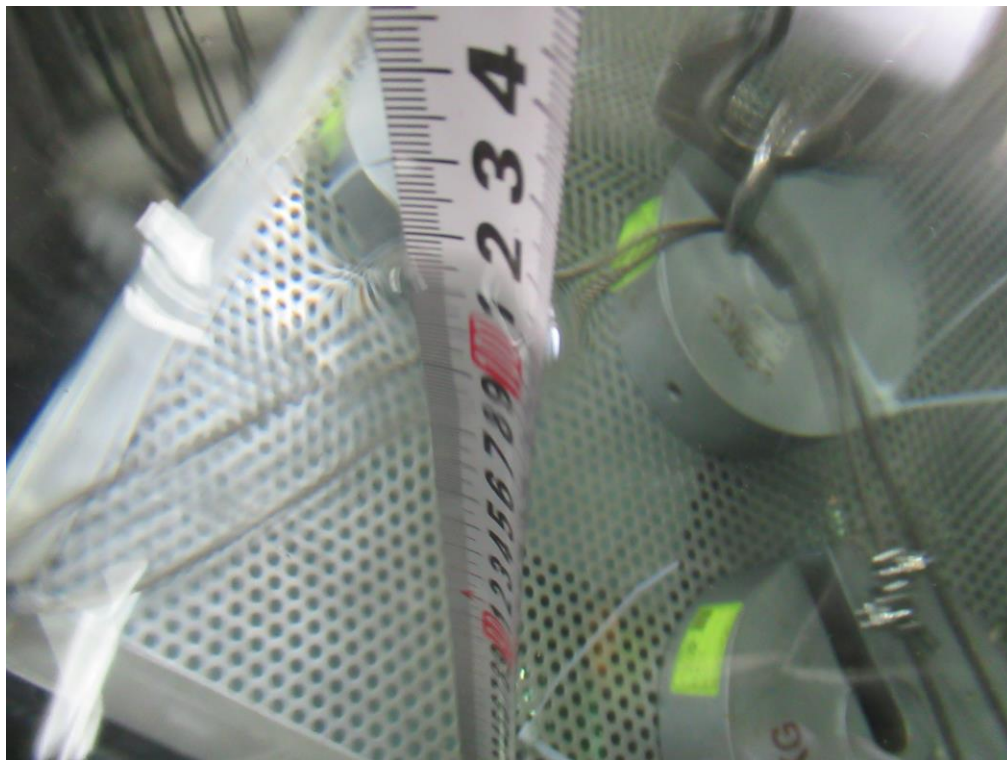
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IPX8 Test



IPX8 Test

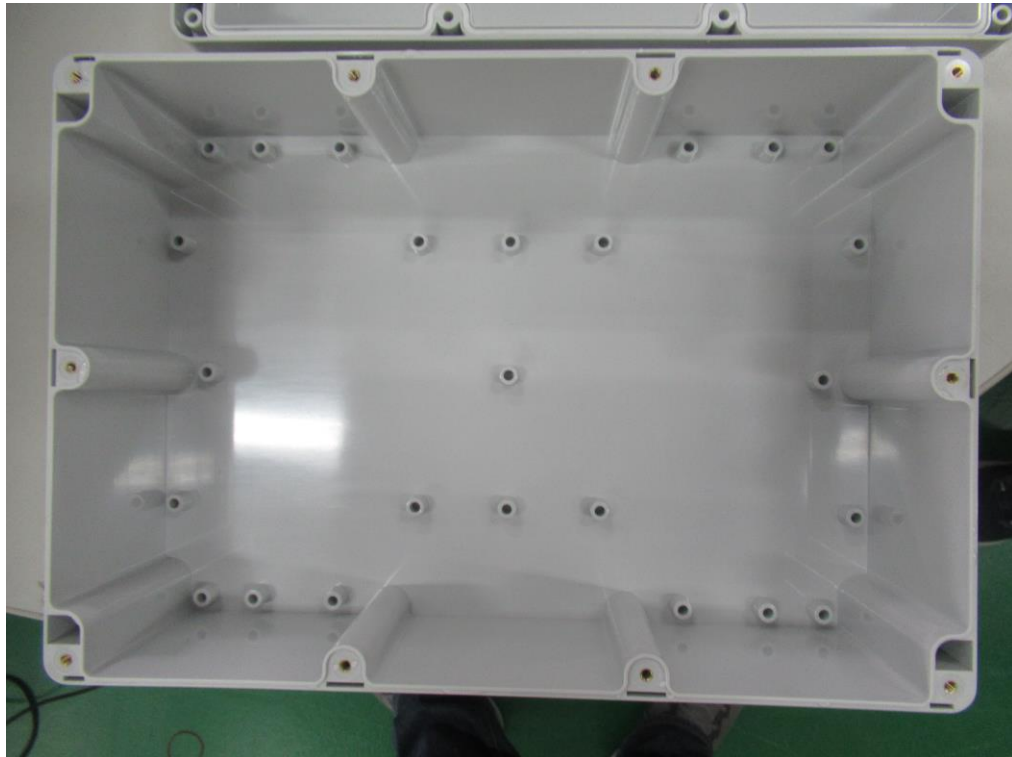


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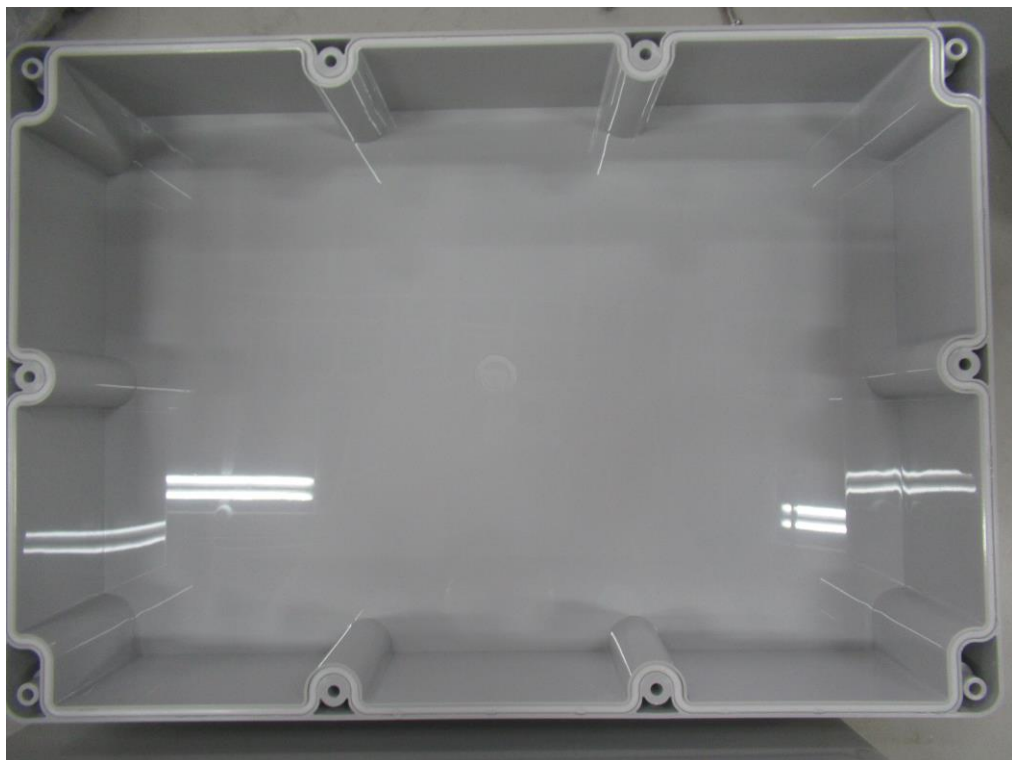
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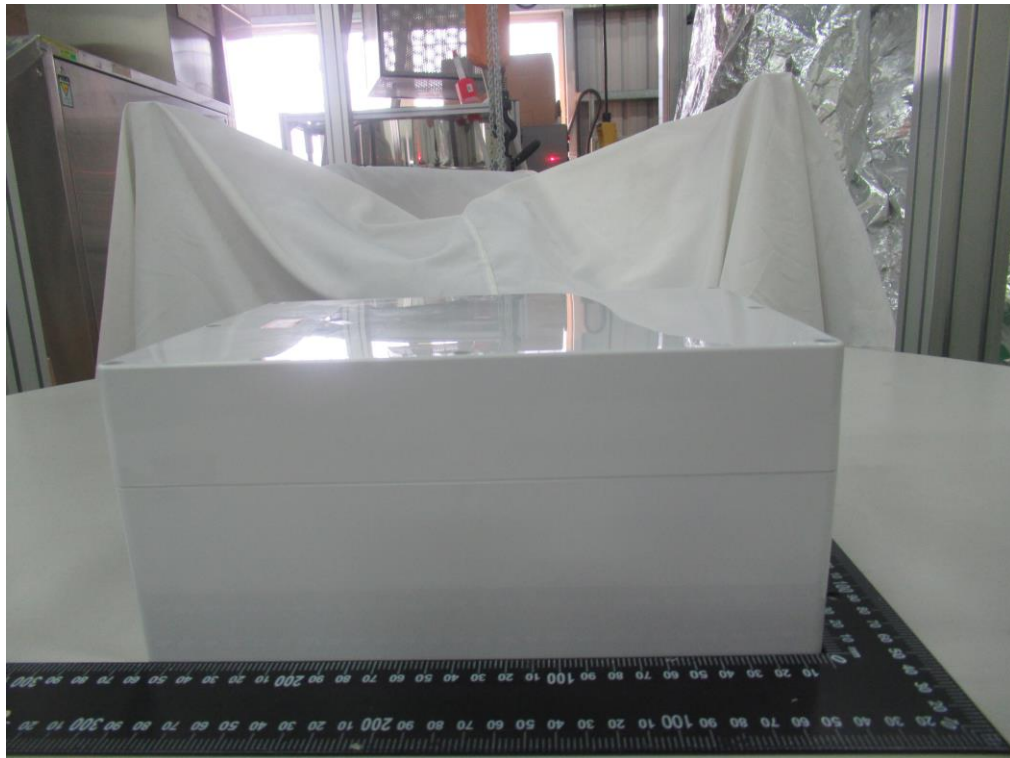
Sealed Plastic Box (PC) P20883  
IPX8 Test - There is no trace of water inside



Sealed Plastic Box (PC) P20883  
IPX8 Test - There is no trace of water inside



Sealed Plastic Box (PC) P2393-IP68 Side view 1



Sealed Plastic Box (PC) P2393-IP68 Side view 2





# TEST REPORT

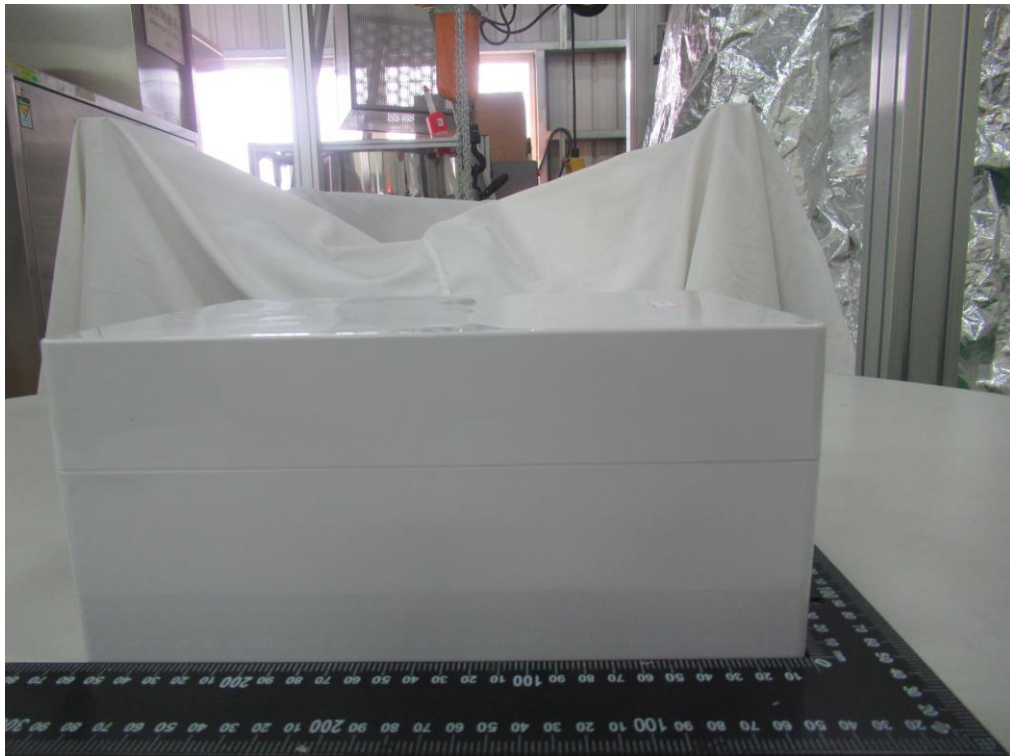
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Sealed Plastic Box (PC) P2393-IP68 Side view 3



Sealed Plastic Box (PC) P2393-IP68 Side view 4



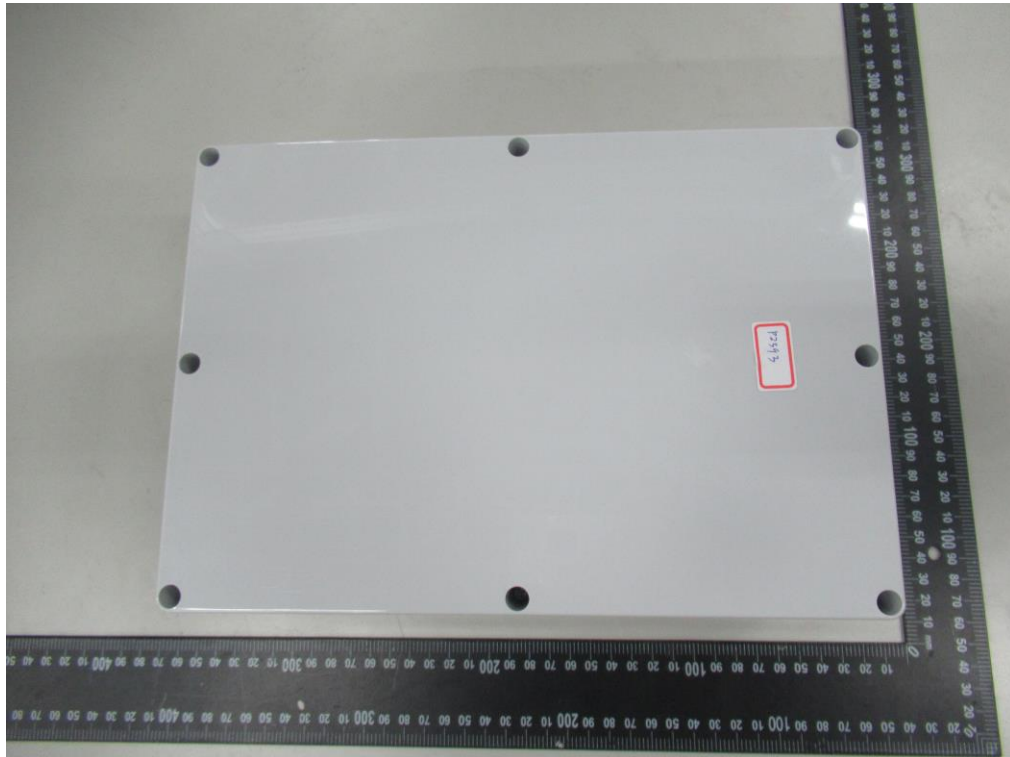


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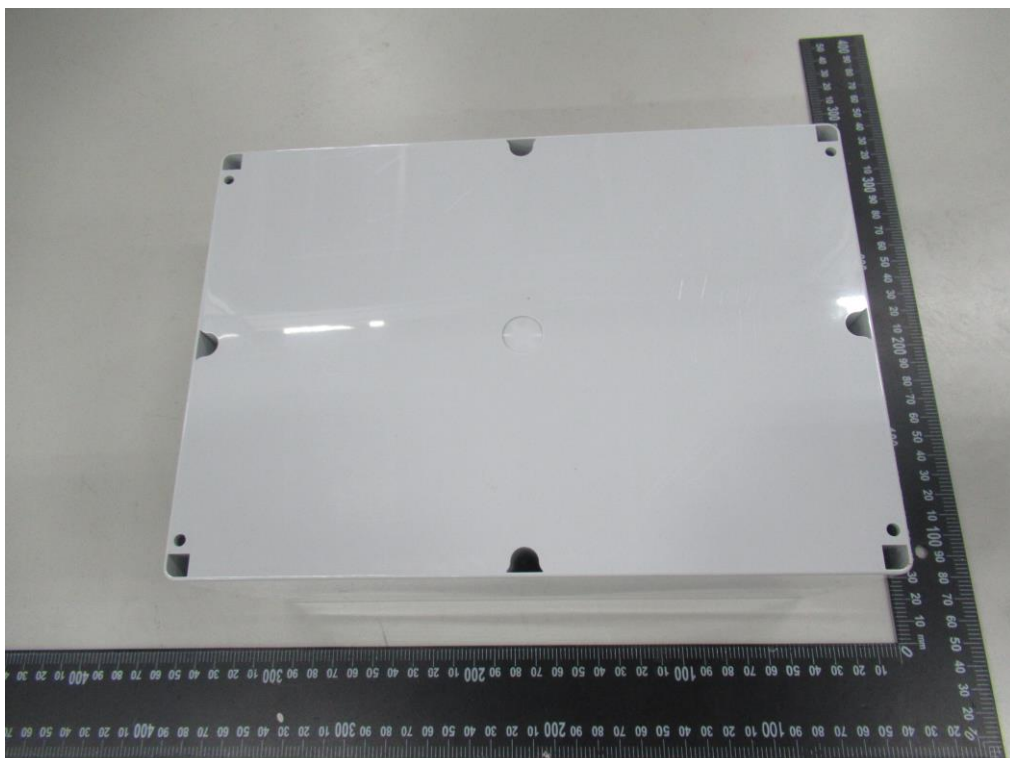
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Sealed Plastic Box (PC) P2393-IP68 Side view 5



Sealed Plastic Box (PC) P2393-IP68 Side view 6



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IP6X Test



IP6X Test



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Sealed Plastic Box (PC) P2393-IP68  
IP6X Test - There is no trace of dust inside



Sealed Plastic Box (PC) P2393-IP68  
IP6X Test - There is no trace of dust inside



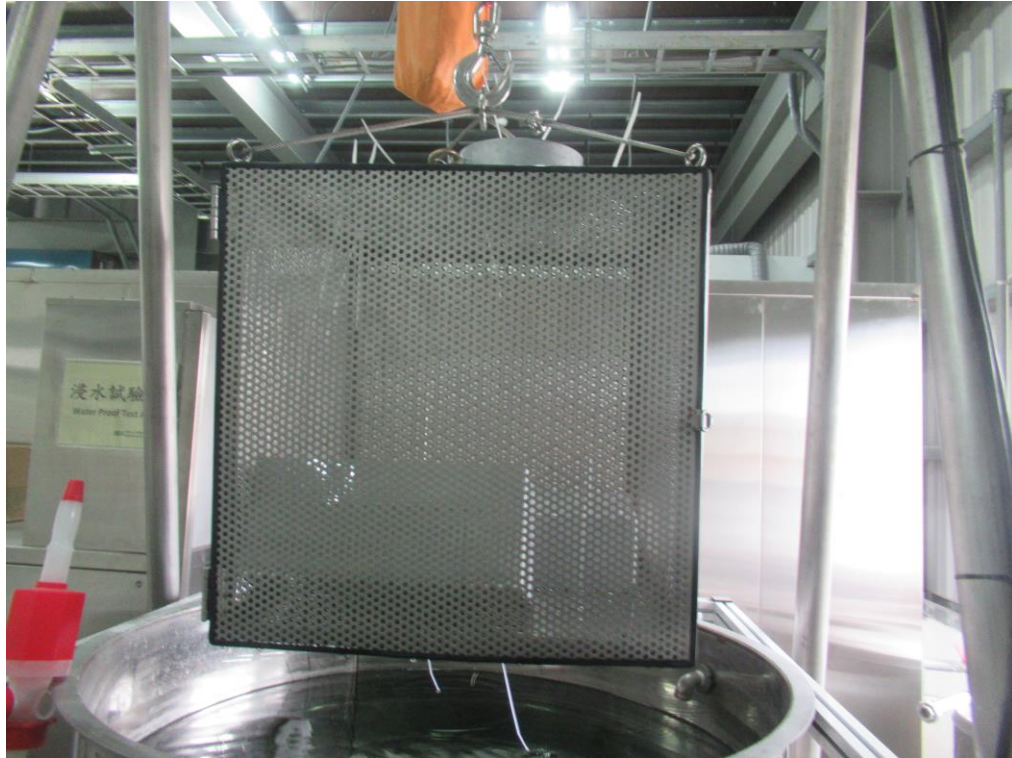


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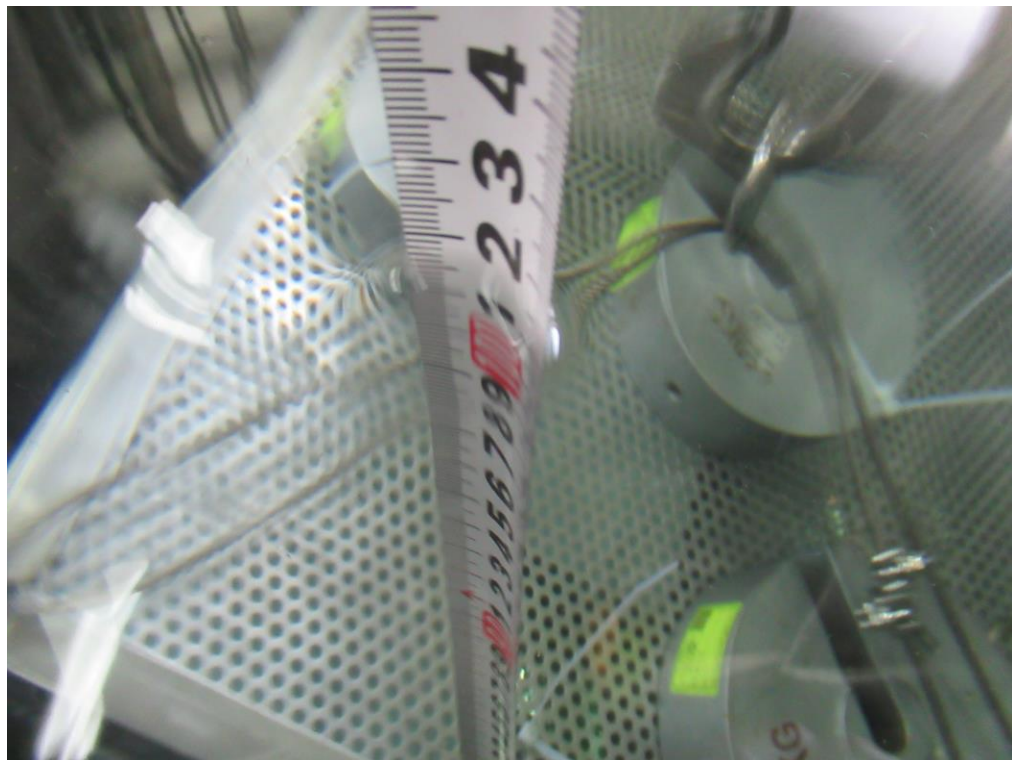
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IPX8 Test



IPX8 Test





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Sealed Plastic Box (PC) P2393-IP68  
IPX8 Test - There is no trace of water inside



Sealed Plastic Box (PC) P2393-IP68  
IPX8 Test - There is no trace of water inside

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