



TEST REPORT

Rep. No. : 20-02-RBD-005

Applicant : Gainta Industries Ltd.

Address : 1F., NO.30, LANE 54, CHUNG CHENG RD.,
 XINDIAN DIST., NEW TAIPEI CITY 231, TAIWAN
 (R.O.C.)

Commodity : Sealed Plastic Box

Model : P20583C-IP68

Serial Model : See below Annex A

Quantity : 3 sets

Date of Receipt : Feb, 13, 2020

Date of Testing : Feb, 18, 2020

Test specification : IEC 60529 : 2015

Ambient Environment : Temp. 23 °C, 53% R.H., A.P. 994 mbar

Test Item : IP68

Test condition & result : See the following sheets

General remarks :

The laboratory will make conformity judgments based on the above test criteria, and the decisive rules of compliance do not consider the uncertainty. 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.



Approved by : Sky Kuo
 Sky Kuo



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1. Test Item : IP68

1.1 Test model: P214-IP68 、 P214C-IP68 、 P20583C-IP68

2. Test Conditions :

2.1 Ambient Condition

- 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 13.4 test)

- Dust:Talcum powder.
- The amount of dust:2 kg/m³.
- Maximum depression of 2kPa.(20mbar).
- The duration of the test is 8 hr.

2.3 IPX8 (In accordance with IEC 60529 14.2.7/14.2.8 test)

- The lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water;
- The highest point of enclosures with a height equal to or greater than 850 mm is located 150 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 :

IP Code	Results	Acceptance Criteria
IP6X	There is no trace of dust inside.	IEC 60529 13.6
IPX8	There is no trace of water inside.	IEC 60529 14.3

Tested by :


Sam Wei



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Utilized testing equipments 試驗設備列表

Test Mode 測試項目	Kind of Instrument Precision Class 設備名稱	Manufacturer 製造商	Model Serial No. 型號,序號或其它資訊	Scan Data 下次校驗日期
IP1X	Test sphere(50mm)球狀試驗棒	ASIA	TSP-01 (7060307)	2020/06/06
IP2X	Test finger(12.5mm)IEC 關節指	ASIA	TFP-01 (7060308)	2020/06/06
IP3X	Test rod,2.5mm(D)x100mm(L)試驗棒	ASIA	TRP-01 (7060309)	2020/06/06
IP4X	Test rod,1mm(D)x100mm(L) 試驗棒	ASIA	TRP-02 (7060310)	2020/06/06
√ IP5~6X	DUST TEST CHAMBER.防塵試驗機	CHTEK	CH-7139-C22 (CH-7139C22-170604)	2020/04/10
IPX1~2	Drip Box 滴水試驗裝置	CHTEK	CH-2010-S6 (CH-2010S6-170603)	2020/03/24
IPX3~4	Oscillating Tube 灑水及濺水試驗裝置	CHTEK	CH-2010-S6 (CH-2010S6-170603)	2020/03/24
IPX5~6	Hose Nozzle 對噴流保護檢測用試驗裝置	CHTEK	CH-2010-S6 (CH-2010S6-170603)	2020/03/24
√ IPX7~8	Metel Water sink 金屬水槽	CHTEK	CH-2010-78 (CH-2010-78-170607)	N/A
√	Temperature recorder 溫度記錄器	GRAPHTEC	GL840 (C60321146)	2021/01/08
√	Tape Measure 捲尺	JK-S	JK-S 8M	2020/11/14
√ IP5~6X	75 μm 圓篩	CHTEK	No.200	2020/04/16
√	Stop watch 碼錶	Casio	403Q25R	2020/08/04
√	Temperature and humidity atmospheric pressure gauge 溫濕度大氣壓力計	KIMO	KPA-320	2020/08/22



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IPX8 Test (P214-IP68)



There is no trace of water inside.



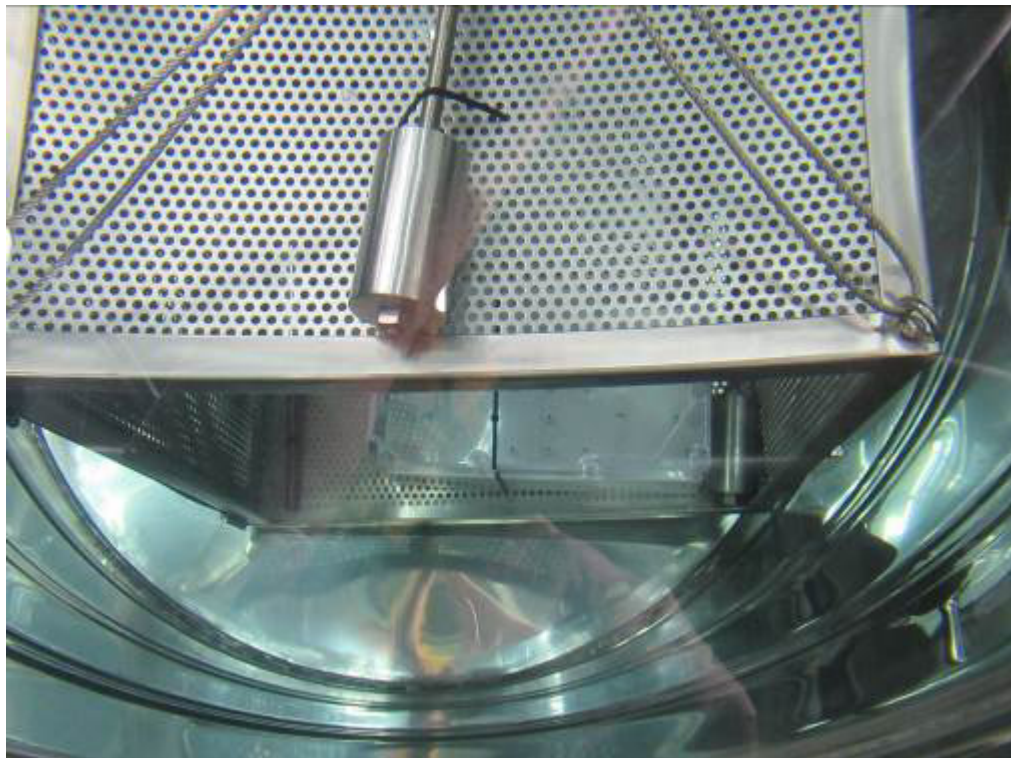
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There is no trace of water inside.



IPX8 Test (P20583C-IP68)



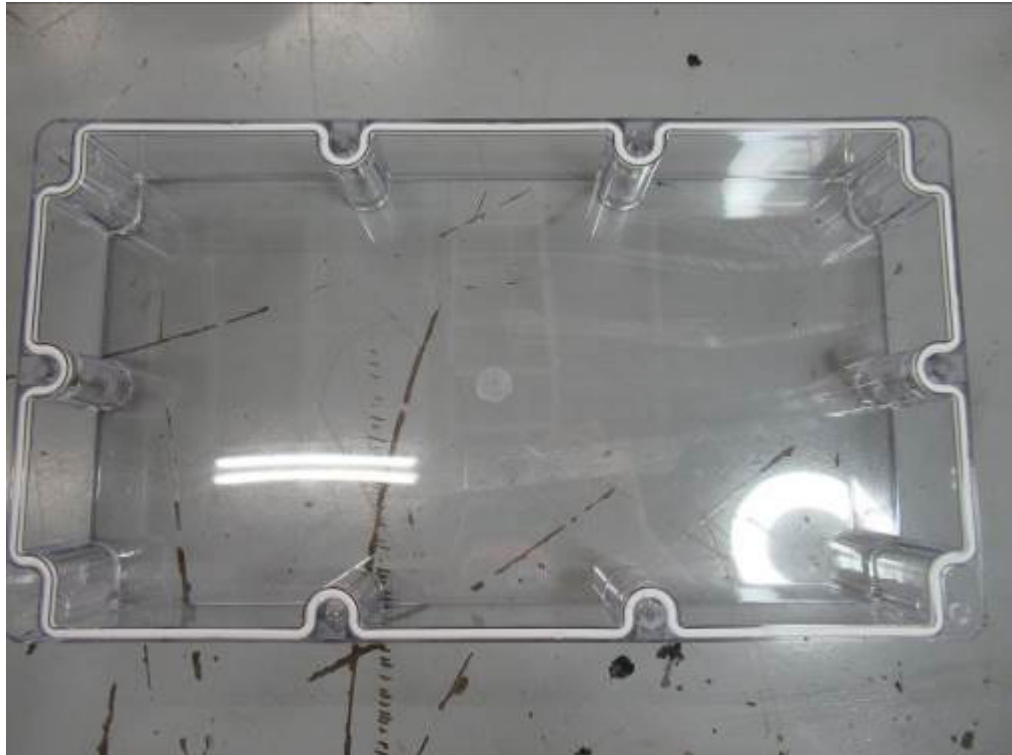
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There is no trace of water inside.



There is no trace of water inside.



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IP6X Test (P214C-IP68)



There is no trace of dust inside.



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There is no trace of dust inside.



There is no trace of dust inside.



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IP6X Test (P20583C-IP68)



There is no trace of dust inside.



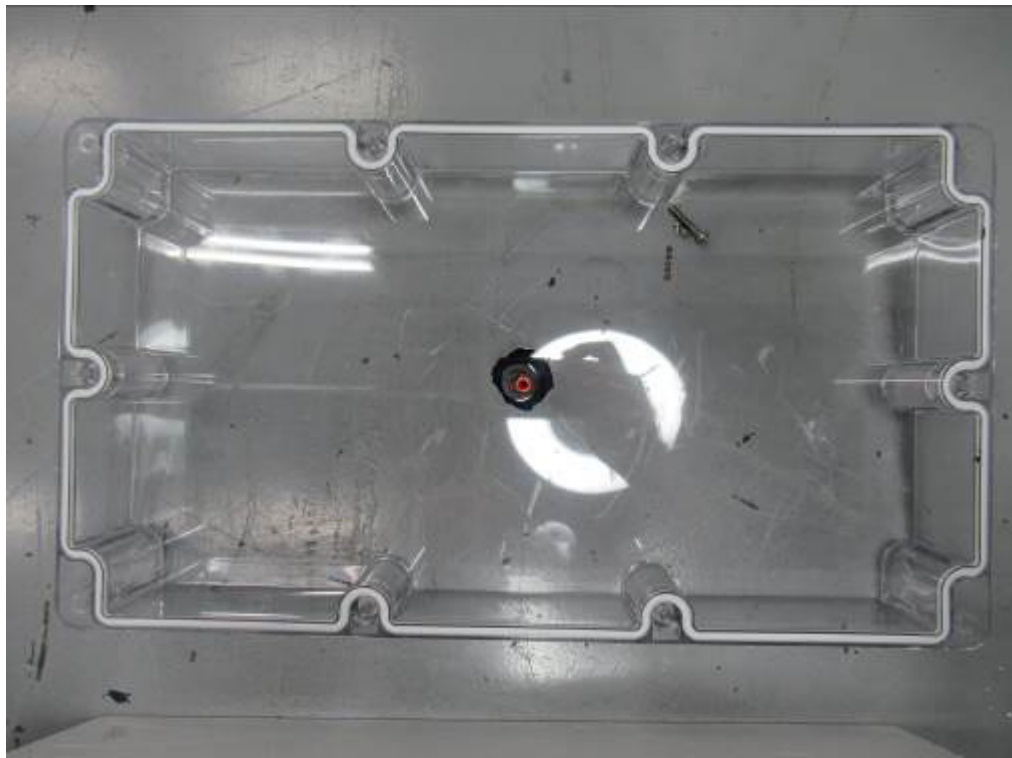
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There is no trace of dust inside.



There is no trace of dust inside.



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Annex A Series difference table

P2XX-IP68 / P2XXMF-IP68 Series IP68 TESL LIST

P2XX-IP68 / P2XXMF-IP68 Series

item	Model no.	Color		External dimensions (mm)
		LID	BASE	
1	P201-IP68	Light Grey	Light Grey	64 x 58 x 35
2	P203-IP68	Light Grey	Light Grey	115 x 65 x 40
3	P205-IP68	Light Grey	Light Grey	115 x 65 x 55
4	P212-IP68	Light Grey	Light Grey	115 x 90 x 55
5	P214-IP68	Light Grey	Light Grey	171 x 121 x 55
6	P218-IP68	Light Grey	Light Grey	222 x 146 x 55
7	P221-IP68	Light Grey	Light Grey	115 x 90 x 80
8	P223-IP68	Light Grey	Light Grey	171 x 121 x 80
9	P229-IP68	Light Grey	Light Grey	195 x 80 x 55
10	P232-IP68	Light Grey	Light Grey	222 x 146 x 75
11	P250-IP68	Light Grey	Light Grey	52 x 50 x 35
12	P256-IP68	Light Grey	Light Grey	82 x 80 x 55
13	P258-IP68	Light Grey	Light Grey	160 x 80 x 55
14	P265-IP68	Light Grey	Light Grey	160 x 80 x 85
15	P278-IP68	Light Grey	Light Grey	120 x 120 x 60
16	P279-IP68	Light Grey	Light Grey	120 x 120 x 90
17	P287-IP68	Light Grey	Light Grey	160 x 160 x 60
18	P288-IP68	Light Grey	Light Grey	160 x 160 x 90
19	P2691-IP68	Light Grey	Light Grey	200 x 120 x 75
20	P2385-IP68	Light Grey	Light Grey	265 x 185 x 95
21	P2018-IP68	Light Grey	Light Grey	240 x 160 x 90
22	P2025-IP68	Light Grey	Light Grey	240 x 160 x 120
23	P20295-IP68	Light Grey	Light Grey	300 x 230 x 86
24	P20385-IP68	Light Grey	Light Grey	300 x 230 x 111
25	P20583-IP68	Light Grey	Light Grey	360 x 200 x 150



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item	Model no.	Color		External dimensions (mm)
		LID	BASE	
1	P201C-IP68	CLEAR	Light Grey	64 x 58 x 35
2	P203C-IP68	CLEAR	Light Grey	115 x 65 x 40
3	P205C-IP68	CLEAR	Light Grey	115 x 65 x 55
4	P212C-IP68	CLEAR	Light Grey	115 x 90 x 55
5	P214C-IP68	CLEAR	Light Grey	171 x 121 x 55
6	P218C-IP68	CLEAR	Light Grey	222 x 146 x 55
7	P221C-IP68	CLEAR	Light Grey	115 x 90 x 80
8	P223C-IP68	CLEAR	Light Grey	171 x 121 x 80
9	P229C-IP68	CLEAR	Light Grey	195 x 80 x 55
10	P232C-IP68	CLEAR	Light Grey	222 x 146 x 75
11	P250C-IP68	CLEAR	Light Grey	52 x 50 x 35
12	P256C-IP68	CLEAR	Light Grey	82 x 80 x 55
13	P258C-IP68	CLEAR	Light Grey	160 x 80 x 55
14	P265C-IP68	CLEAR	Light Grey	160 x 80 x 85
15	P278C-IP68	CLEAR	Light Grey	120 x 120 x 60
16	P279C-IP68	CLEAR	Light Grey	120 x 120 x 90
17	P287C-IP68	CLEAR	Light Grey	160 x 160 x 60
18	P288C-IP68	CLEAR	Light Grey	160 x 160 x 90
19	P2691C-IP68	CLEAR	Light Grey	200 x 120 x 75
20	P2385C-IP68	CLEAR	Light Grey	265 x 185 x 95
21	P2018C-IP68	CLEAR	Light Grey	240 x 160 x 90
22	P2025C-IP68	CLEAR	Light Grey	240 x 160 x 120
23	P20295C-IP68	CLEAR	Light Grey	300 x 230 x 86
24	P20385C-IP68	CLEAR	Light Grey	300 x 230 x 111
25	P20583C-IP68	CLEAR	Light Grey	360 x 200 x 150



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item	Model no.	Color		External dimensions (mm)
		LID	BASE	
1	P200MF-IP68	Light Grey	Light Grey	90 x 35 x 35
2	P201MF-IP68	Light Grey	Light Grey	64 x 58 x 35
3	P203MF-IP68	Light Grey	Light Grey	115 x 65 x 40
4	P205MF-IP68	Light Grey	Light Grey	115 x 65 x 55
5	P212MF-IP68	Light Grey	Light Grey	115 x 90 x 55
6	P214MF-IP68	Light Grey	Light Grey	171 x 121 x 55
7	P218MF-IP68	Light Grey	Light Grey	222 x 146 x 55
8	P221MF-IP68	Light Grey	Light Grey	115 x 90 x 80
9	P223MF-IP68	Light Grey	Light Grey	171 x 121 x 80
10	P232MF-IP68	Light Grey	Light Grey	222 x 146 x 75
11	P250MF-IP68	Light Grey	Light Grey	52 x 50 x 35
12	P256MF-IP68	Light Grey	Light Grey	82 x 80 x 55
13	P258MF-IP68	Light Grey	Light Grey	160 x 80 x 55
14	P265MF-IP68	Light Grey	Light Grey	160 x 80 x 85
15	P278MF-IP68	Light Grey	Light Grey	120 x 120 x 60
16	P279MF-IP68	Light Grey	Light Grey	120 x 120 x 90
17	P2691MF-IP68	Light Grey	Light Grey	200 x 120 x 75
18	P2385MF-IP68	Light Grey	Light Grey	265 x 185 x 95



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item	Model no.	Color		External dimensions (mm)
		LID	BASE	
1	P200CMF-IP68	CLEAR	Light Grey	90 x 35 x 35
2	P201CMF-IP68	CLEAR	Light Grey	64 x 58 x 35
3	P203CMF-IP68	CLEAR	Light Grey	115 x 65 x 40
4	P205CMF-IP68	CLEAR	Light Grey	115 x 65 x 55
5	P212CMF-IP68	CLEAR	Light Grey	115 x 90 x 55
6	P214CMF-IP68	CLEAR	Light Grey	171 x 121 x 55
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8	P221CMF-IP68	CLEAR	Light Grey	115 x 90 x 80
9	P223CMF-IP68	CLEAR	Light Grey	171 x 121 x 80
10	P232CMF-IP68	CLEAR	Light Grey	222 x 146 x 75
11	P250CMF-IP68	CLEAR	Light Grey	52 x 50 x 35
12	P256CMF-IP68	CLEAR	Light Grey	82 x 80 x 55
13	P258CMF-IP68	CLEAR	Light Grey	160 x 80 x 55
14	P265CMF-IP68	CLEAR	Light Grey	160 x 80 x 85
15	P278CMF-IP68	CLEAR	Light Grey	120 x 120 x 60
16	P279CMF-IP68	CLEAR	Light Grey	120 x 120 x 90
17	P2691CMF-IP68	CLEAR	Light Grey	200 x 120 x 75
18	P2385CMF-IP68	CLEAR	Light Grey	265 x 185 x 95