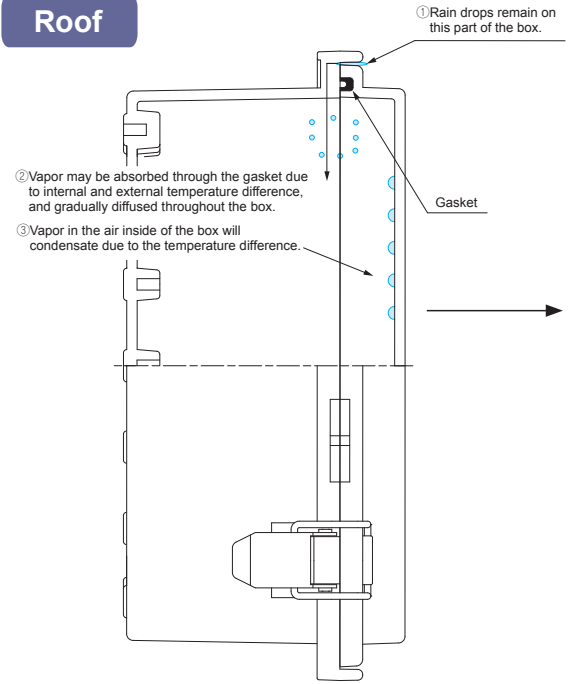


PLASTIC WATERPROOF BOX OUTDOOR USE

*Below are application examples for outdoor use of plastic waterproof boxes. Depending on the usage environment, effectiveness may vary.

Roof



When installing waterproof box outdoors, installation under a roof, or attaching a roof accessory is recommended to prevent condensation inside the box. This is especially so for transparent lid models which are affected by direct sunlight, causing the temperature inside of the box to be higher than non-transparent lid models. Higher internal temperature (compared to the external part of the box) may cause vapor absorption, hence the importance of attaching a roof accessory.



■ Without roof attachment



■ With roof attachment

Protective Vent • Louver • Ventilation

Use to prevent condensation, as well as for ventilation. (Suitable parts vary depending on environment).



- Protective Vent
PMF Series
See PMF pages
- Louver
V Series
See V • VF pages
- Ventilation Parts
VF series
See V • VF pages

Weather Resistant Coating

Weather resistant paint coating to protect against color fade and degradation. (ABS Plastic / 1 year exposure)



WEATHERBILITY / DURABILITY TEST DATA for IP rated boxes

Weather resistance is the ability of a material to prevent corrosion, loss of material or any sort of deterioration due to prolonged exposure to harsh environmental and weather conditions.
The test data for our weather resistance waterproof/dustproof cases are as detailed below.

TEST DETAILS • TEST INSTRUMENT

Tester : Super Xenon Weather Meter SX75 - Suga Test Instruments Co., Ltd.
 (Testing under conditions closest to the spectral distribution of sunlight by utilizing a xenon lamp and filter system.)
 Irradiation Condition : 180 W/m² at 300 ~ 400nm
 Black panel humidity : 63±3 °C
 Relative Humidity : 50±10 %
 Cycle conditions : 120 minutes (18 min. irradiation + water spray and 102 min. irradiation)
 Test Time : 500 hours (continuous test)
 Radiation Exposure : 324 MJ/m²
 Measurements : Color measurements performed based upon JIS Z 8722 standard, with the results based upon JIS Z8781-4 standard.
 *Lesser color difference infers better weather resistance.

TEST DATA

*Test data results are reference data only; does not reflect actual usage conditions.

Before testing (plastic material color)



After 500 hours testing (plastic material color)



No.	Target box / Material	Test time	Color difference ΔEab
①	WP series - G color type ASA material	100 hrs. 500 hrs.	0.9 3.3
②	SPCP • SPCM series (Body) Glassfiber-filled Polycarbonate material	100 hrs. 500 hrs.	2.9 7.8
③	BCPC • BCPK series (Top cover) Polycarbonate material	100 hrs. 500 hrs.	3.8 7.9
④	BCPC • BCPK series (Base) Glassfiber-filled Polycarbonate material	100 hrs. 500 hrs.	4.7 8.6
⑤	SPCP • SPCM series (Cover) Polycarbonate material	100 hrs. 500 hrs.	3.7 10.6
⑥	BCAP series ABS material	100 hrs. 500 hrs.	3.6 10.8

Better weather resistance

