

## 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.**

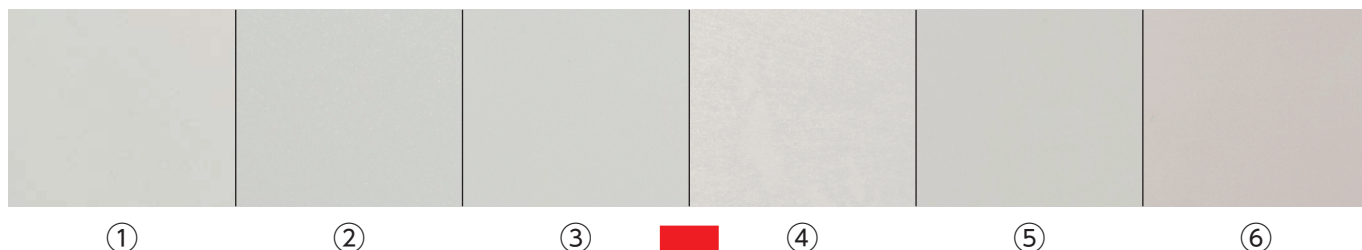
### TEST DETAILS • TEST INSTRUMENT

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/m<sup>2</sup> 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/m<sup>2</sup>  
 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 $\Delta E_{ab}$
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**

