



## Test Report

No.: SZRL2013120008

Date: Dec.09. 2013

Page 1 of 6

### PELICAN PRODUCTS INC

23215, EARLY AVENUE TORRANCE C.A, USA 90505

The following merchandise was submitted and identified by the vendor as:

Sample Description: iPad Air  
Quantity: 2 PCS  
Sample receiving Date: Dec.03  
Test period: Dec.03, 2013 to Dec.09, 2013  
Test Requested:  
1. Dust Test-IP5X  
2. Water Proof Test-IPX4  
Test Method: Refer to IEC 60529:2001 and client's requirements.  
For further details, please refer to the following page(s).  
Test Result(s): For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Ltd.

*Helen Ren*

Reliability Lab

Helen Ren

Engineer

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**1. Dust Test-IP5X:**
**1.1 Test Method/Specification or Clients' Requirement:**
**a) Test Method/Specification:**

Refer to IEC 60529:2001+COR3:2009 Clause 13.4& Clause13.6 and clients' Requirement.

**b) Test condition:**

The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The suction connection shall be made to a hole specially provided for this test. If not otherwise specified in the relevant product standard, this hole shall be in the vicinity of the vulnerable parts. If it is impracticable to make a special hole, the suction connection shall be made to the cable inlet hole. If there are other holes (for example, more cable inlet holes or drain-holes) these shall be treated as intended for normal use on site.

The object of the test is to draw into the enclosure, by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event shall the depression exceed 2 kPa (20 mbar).

**c) Acceptance conditions:**

The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety. Except for special cases to be clearly specified in the relevant product standard, no dust shall deposit where it could lead to tracking along the creepage distances.

**1.2 Test Sample(s):**

Sample Description	Sample No.	Sample Qty.
iPad Air	2#	1 PC

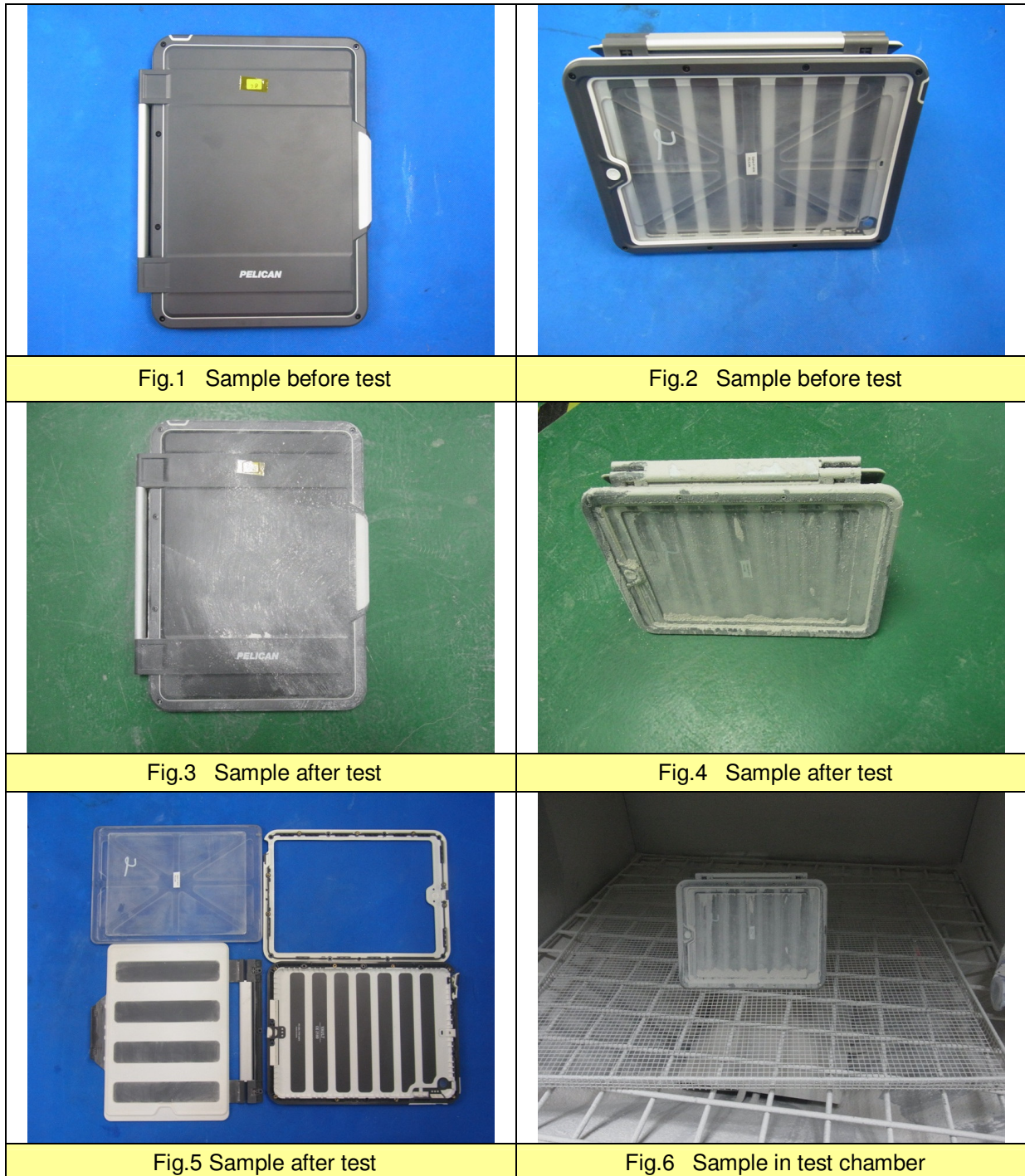
**1.3 Test Result:**

Sample No.	Test Result
2#	No dust entered into the inside of the sample.

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### 1.4 Test Photos:



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**2. Water proof Test – IPX4:**
**2.1 Test Method/ Specification or Clients' Requirement:**
**a) Test Method/Specification:**

Refer to IEC 60529:2001+COR3:2009 Clause 14.2.4 & Clause 14.3 and client's requirements.

**b) Acceptance condition:**

If any water has entered, it shall not:

- Be sufficient to interfere with the correct operation of the equipment or impair safety;
- Deposit on insulation parts where it could lead to tracking along the creepage distances;
- Reach live parts or windings not designed to operate when wet;
- Accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

**2.2 Test Sample(s):**

Sample Description	Sample No.	Sample Qty.
iPad Air	1#	1 PC

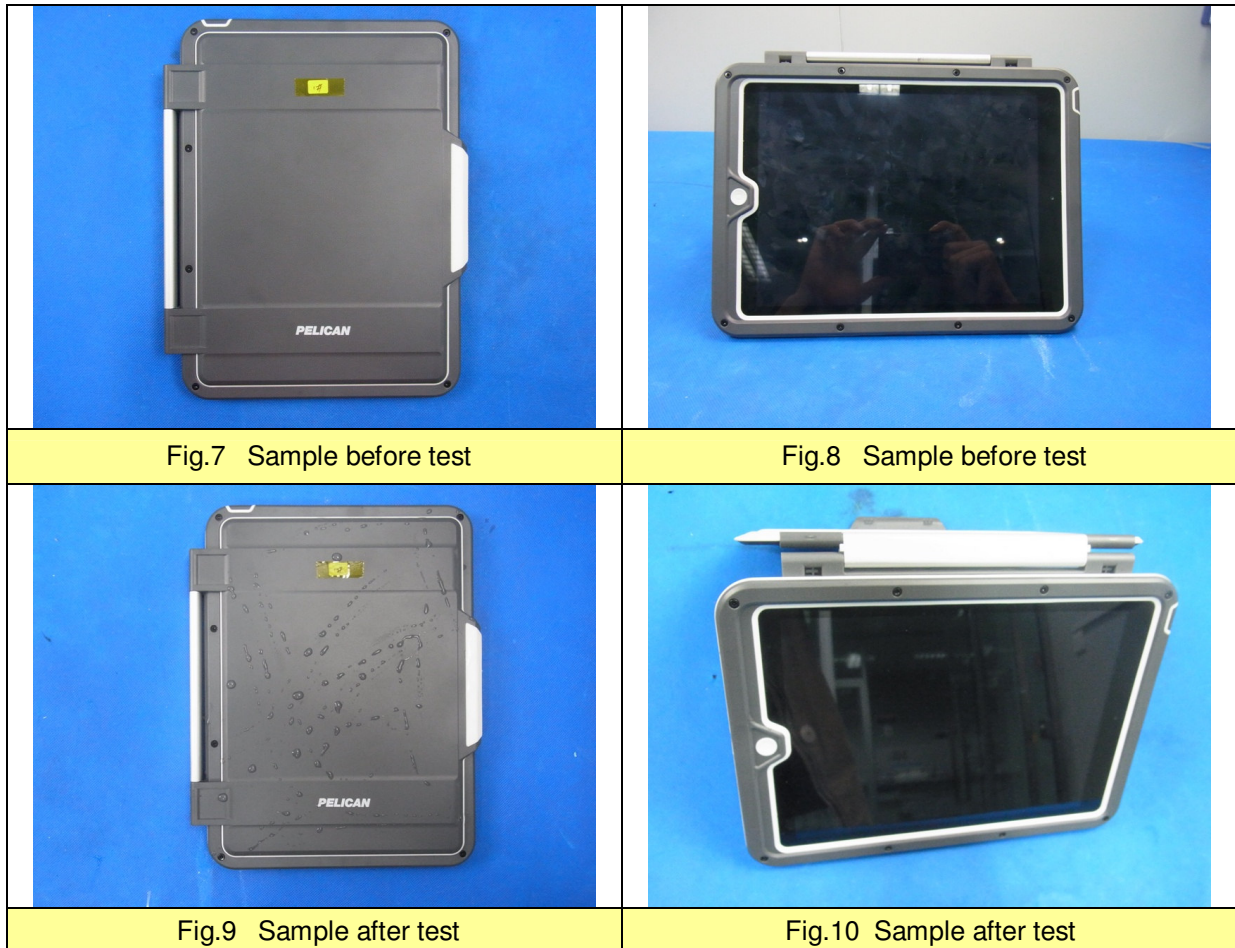
**2.3 Test Result:**

Sample No.	Test Result
1#	No water entered into the inside of the sample.

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### 2.4 Test Photos:



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Fig.11 Sample after test



Fig.12 Sample during test

\*\*\*End of Report\*\*\*

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