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Test Report

Verified Code:494011

Report No.:H20240903144001-07EN

Customer:	ProTech CO., Ltd				
Address:	No. 18, Baoying Road, Da	awang High-Tech	District, Zhaoqin	g, Guangdong	
Sample Name:	Sinora Hard Shell Case				
Sample Model:	SIN-04836-20BK-E				
Receive Sample Date:	Sept. 12, 2024				
Test Date:	Sept. 19, 2024~Sept. 30, 2	2024			
Reference Document:	ISO 20653: 2013				
Test Result:	Meet the requirements				
Prepared by	Reviewed by	Gao Zhen Jie	Approved by	Zhang Huaming	
W	ang Xin	Gao Zhenjie		Zhang Hua Ming	7
		GRG METRO	DLOGY & TEST	GROUP CO., LTD.	
			Issued Date:	2024/10/30	
Address: No 163	GRG METROLOGY & , Pingyun Road, West of Hu		1.5.1	nadona China	
	0-602-0999 FAX: (+86)				
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Statement

1. The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.

2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.

3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.

4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.

5. The test report only used for scientific research, teaching, internal quality control and other purposes.

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Test type	□Commissioning Test □Routine test □DV □ECV □PV □OTS					
	□R&D test ☑Other	s/	S)			
			~			
Sample Source	☐Commissioned units send sample ☐Others:					
Sample	Model	Quantity	Sample No.	Test No.		
Sinora Hard Shell Case	SIN-04836-20BK-E	1pc	1	H202409031440-0012		
		C	·			
Sample		•				
Components and Accessories	Components: /	A	ccessories: /			
Test with packaging or not	□Yes, Outer Packing ☑No					
Sample quality						
before test	Prototype	□Other	-			
Abnormal condition						
of sample before test	No Abnormalities	<u>E</u>				
Environmental requirements	Temperature: 15.0°C ~35.0°CRelative Humidity: 25%~75%Atmospheric pressure: 86kPa~106kPa					
Test Address	Shenzhen laboratory: Subdistrict, Longhua D			Guanguang Road, Guanlar China.		

1 IP6X Test

1.1 Test Condition

According to ISO 20653: 2013.

1.1.1 Before test, perform visual check for samples.

1.1.2 Test conditions of IP6X Test as follows.

1.1.2.1 Anti-touch protection level: Probe the shell of the test article with a metal wire of 1.0mm

in diameter with a force of $1N \pm 0.1N$;

1.1.2.2 Anti-foreign object protection level: place the test item in the test box and test it according to the conditions in Table 1-1.

1.1.3 After test, perform visual check and function check for samples.

Table 1-1 IP6X test conditions

Tust Dust	Dust dosage	Test time
Arizona Powder	2kg/m ³	Take 6s dust raising, 15min static as a cycle, run 20 cycles

1.2 Sample Information

Sample information is shown in Table 1-2.

Table 1-2 Sample Information

Sample Name	Model	Quantit	y /	Test No.
Sinora Hard Shell Case	SIN-04836-20BK-E	1pc		H202409031440-0012

1.3 Test Requirements

According to ISO 20653: 2013.

1 mm metal probe shall not enter the shell of the test article and no dust shall penetrate into the

interior of the test article after the test.

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1.4 Test Result

The test result is shown in Table 1-3.

Table 1-3 Test Result

Test No.	Test Result	Conclusion
H202409031440-0012	The 1mm diameter detection line did not enter the shell of the test article, and no dust entered the interior of the test article after the test.	Meet the requirements

1.5 Test Photos



2 IPX7 Test

2.1 Test Condition

According to ISO 20653: 2013.

2.1.1 Before test, perform visual check for samples.

2.1.2 Test method: fix the test article in the immersion pool and conduct the test according to the

conditions in Table 2-1;

2.1.3 After test, perform visual check and function check for samples.

Table 2-1 IPX7 test conditions

Distance between the highest point of the box and the water surface	Test time	
1000mm	30min	

2.2 Sample Information

Sample information is shown in Table 2-2.

Table 2-2 Sample Information

Sample Name	Model	Quantity	Test No.
Sinora Hard Shell Case	SIN-04836-20BK-E	1pc	H202409031440-0012

2.3 Test Requirements

According to ISO 20653: 2013.

The test article is temporarily immersed in water; water must not penetrate in such a way as to

cause adverse effects.

2.4 Test Result

The test result is shown in Table 2-3.

Table 2-3 Test Result

Test No.	Conclusion	
H202409031440-0012	No water ingress inside the sample after the test.	Meet the requirements

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2.5 Test Photos

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3 Test Instrument & Equipment

List of Instrument for Testing Equipment						
No.	Testing Item	Instrument/Equipment	Туре	Serial No.	Calibration Valid Date	
1	IP6X	Dust test chamber	GT1321	GT20170703001	2023-12-16~2024-12-15	
		IP4X test sonde	CX-T4D	CX2306394	2024-06-19~2025-06-18	
		Leaching tank		SZ008	/	
2	IPX7	Steel rule	0~1000mm	2482515	2024-02-21~2025-02-20	
		Stopwatch	PC2810	979862	2024-03-14~2025-03-13	

——End of Report—–