

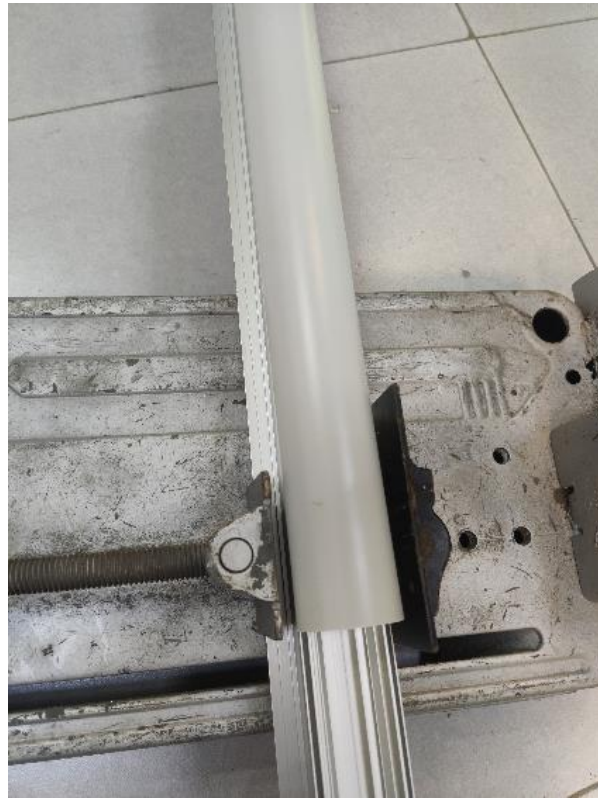
Test report

Test items	IK protection level test
Test object	D50 PC cover
Purpose of detection	Verify the IK protection level of D50 PC cover
Test time	2023-03-16
Testing equipment	Standard Code: GB/T 2423.55-2006 Standard Name: Environmental testing for electrical and electronic products-Part 2: Test methods Test Eh: Environmental testing for electric and electronic products--Part 2: Test methods--Test Eh: hammer tests) (Environmental testing for electric and electronic products--Part 2: Test Methods --Test EH: Hammer tests) IK grade test equipment, 1.7KG, 5KG metal hammer, tape measure
Test method and procedure: Refer to GB/T 2423.55-2006 (IEC 60068-2-75:1997) Environmental testing for electrical and electronic products - Part 2: Test methods Test Eh: Hammer test and GBT 20138-2006 (IEC62262:2002) electrical equipment shell to the external mechanical collision protection standard content of the test	
The final conclusion of test: D50 PC cover IK grade surface of the external mechanical collision protection level IK08 test passed; The results of this experiment are only responsible for the sample results.	
Test data: 1. Record the status of the sample before testing.	

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2. Set up the test device and conduct the test according to IK08 grade requirements (30cm height, 1.7KG hammer 5J energy)



The height of 1.7KG metal hammer is 30cm

3. After the impact, record the appearance data of the sample. Test result: the PC cover did not crack or break after the hammer

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4. Set up the test device according to IK09 grade requirements (20cm height, 5KG hammer 10J energy) and conduct the test



The height of 5KG metal hammer is 20cm

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5. After the impact, record the appearance data of the sample. Test result: the PC cover did not crack or break after the hammer

6. Set up the test device and conduct the test according to IK10 grade requirements (40cm height, 5KG hammer 10J energy)



The height of 5KG metal hammer is 40cm

7. After the impact, record the appearance data of the sample. Test result: the PC cover cracks and breaks after the hammer



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Attached table: IK grade test standard reference table

表 1 IK 代码及其相应碰撞能量的对应关系

IK 代码	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
碰撞 能量/J	a	0.14	0.2	0.35	0.5	0.7	1	2	5	10	20

注 1：如要求更高的碰撞能量，推荐取值 50J。

注 2：有些国家标准使用一位数字表示规定的碰撞能量，为避免与之混淆，故特征数字选用两位数字表示。

^a 按本标准为无防护。

为了避免因反弹产生的二次撞击，在初次撞击后可用抓住撞击元件而非摆杆的方法制动。以避免摆杆变形。

表 2 跌落高度

能量/ J	0.14	0.2		(0.3)	0.35	(0.4)	0.5		0.7	1	2	5	10	20	50
等效质量/ kg	0.25	(0.2)	0.25	(0.2)	0.25	(0.2)	(0.2)	0.25	0.25	0.25	0.5	1.7	5	5	10
跌落高度， ±1%/mm	56	(100)	80	(150)	140	(200)	(250)	200	280	400	400	300	200	400	500

注 1：见 3.2.2 注。

注 2：本部分的能量单位焦耳(J)由标准重力加速度(g_n)导出。 g_n 经圆整取值为 10 m/s²。

Test results:

Through the appeal test data to prove IK09 grade 10J, 5KG weight, height 200MM test the phenomenon of glass damage after hammer. According to the national standard GB/T 20138-2006 /IEC 62262:2002 Article 4.4 test and GB/T 20138-2006 /IEC 62262:20024.2 Table 1 content and article 6 to determine the IK grade of D50 PC cover surface pass IK09

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