



Test report

Client Name : HK Bo Xin Mei Nano Technology Group Co., Limited

Address : ROOM F 6/F MEGA CUBE NO.8 WANG KWONG ROAD
KOWLOON HONG KONG

Manufacturer : Guangdong Boxinmei Nanotube Industry Co.,Ltd

Address : No. 2, Hefeng Road, Guangzhou Huadu (Qingxin) Industrial
Transfer Park, Heyun Town, Qingxin District, Qingyuan City,
Guangdong Province, China

Product Name : Colored PVC Conduit

Date : 2025-12-24

CCCS Testing (Shenzhen) Co., Ltd

RvK2xMe



2C7W5qP

**TEST REPORT**

EN 12902:2004

Products used for treatment of water intended for human consumption — Inorganic supporting and filtering materials — Methods of test

Report

Report reference No. : ZR1226222510

Tested by (signature)

Reviewed by (signature)

Approved by (signature)



Date of issue : 2025-12-24

Testing laboratory

Name : CCCS Testing (Shenzhen) Co., Ltd

Address : Unit 201 East, Building 12, Zhonghisense Innovation Industrial City, No. 12, Ganli liulu, Gankeng, Jihua Jihua Subdistrict, Longgang District, Shenzhen, Guangdong, China

Test location : Same as above

Client

Name : HK Bo Xin Mei Nano Technology Group Co., Limited

Address : ROOM F 6/F MEGA CUBE NO.8 WANG KWONG ROAD KOWLOON HONG KONG

Test specification

Standard : IEC 61386-21:2021 used in conjunction with IEC 61386-1:2008+A1:2017

Non-standard test method : N.A.

Test item

Description : Colored PVC Conduit

Model No. : De20

Additional Model : /

Manufacturer : Guangdong Boxinmei Nanotube Industry Co., Ltd

Address : No. 2, Hefeng Road, Guangzhou Huadu (Qingxin) Industrial Transfer Park, Heyun Town, Qingxin District, Qingyuan City, Guangdong Province, China

Trade :  博新美 BOSXMEI



IEC 61386-21			
Clause	Requirement+Test	Result -Remark	Verdict
7	MARKING AND DOCUMENTATION		P
7.1	Conduit(conduit fitting)is marked on the product with a trade mark or a name identifying the manufacturer or responsible vendor....		P
	Conduit(conduit fitting)is marked in addition in such a way that it can be identified in the manufacturer's, or responsible vendor's,literature		P
7.1.1	Classification code accordance Annex A,least first four digits		P
7.1.2	Manufacturer indicates the compatibility of parts within a conduit system	on instruction sheet	P
7.1.101	Conduit is marked in accordance with 7.1 along its entire length at regular intervals of preferably 1 m but not longer than 3m(m)	one for item(2m lenght)	P
7.2	Conduit fitting is marked in accordance with 7.1		P
7.6	Marking is durable and clearly legible		P
8	DIMENSIONS		P
8.1	Threads and external diameter comply with IEC 60423	see Tab 8.1 on Annex 1	P
9	CONTRUCTION		P
9.1	There are no sharp edges,burrs or surface projections within the conduit system		P
	The manufacturer provides guidelines to assist the safe installation of the conduit system		P
9.2	Screws,if any,used for attaching components or covers to conduit fittings,or in joints to conduits,do not cause damage to cable insulation when correctly inserted		N/A
	Screws have ISO metric threads		N/A
	Thread-cutting screws are not used		N/A
9.5	Any material within the joint have at least the same level of resistance to the external influence as either the conduit or the conduit fitting		P
9.6	Indications whether the conduit system that are assembled by means other than threads can be disassembled and if so,how this can be achieved, are provided by the manufacturer		P
10	MECHANICAL PROPERTIES		P
10.1	Mechanical Strenght		-
10.1.1	Conduit systems have adequate mechanical strength		P



IEC 61386-21			
Clause	Requirement+Test	Result -Remark	Verdict
10.1.2	Conduits do not crack and are not deformed when bent or compressed,or exposed to impact or extreme temperature,according to their classification		P
10.1.3	Conduit systems intended as a mounting for other equipment have adequate mechanical strength		N/A
10.2	Compression test		P
	sample length(200±5mm)	200	-
	compression force (ref table 4)(N)	1250	-
	force applied fo 60±2 sec		-
	Difference between initial outside diameter and the diameter of the flattened sample not exceed 25%	see Tab 10.2 on Annex 1	P
10.3	Impact test		P
	12 samples of conduit,each (200±5)mm in length, or 12 samples of conduit fittings subjected to an impact test	see Tab 10.3 on Annex 1	-
10.3.3	At least 9 of the 12 samples passed the test	12	P
11	ELECTRICAL PROPERTIES		P
11.1	Electrical requirements		-
11.1.2	Conduit systems of a metal or composite materials shall be so constructed that accessible metal parts can be bonded to earth		P
11.1.3	Accessible conductive parts shall be effectively earthed		P
11.2	Bonding test		-
	Resistance<0,1Ω(Ω2)		P
14	EXTERNAL INFLUENCES		P
14.1	Degree of protection provided by enclosure		-
14.1.1	Conduit systems have adequate resistance to external influences according to the classification declared by the manufacturer,with a minimum requirement of IP30	IP40	P
14.2	Resistance against corrosion		-
	Resistance to corrosion classification for painted and zinc coated steel and steel composite conduits and conduit fittings (table 10)	resistance 2	P
	For non-ferrous metallic and composite conduit systems,the manufacturer provided information about its protection against corrosion		P
14.2.2	Tests for resistance to corrosion for painted and zinc coated steel and steel composite conduits systems		-
14.2.2.1	Low protection conduit and conduit fittings inspected for completeness of covering by the protective coating,both inside and outside		N/A



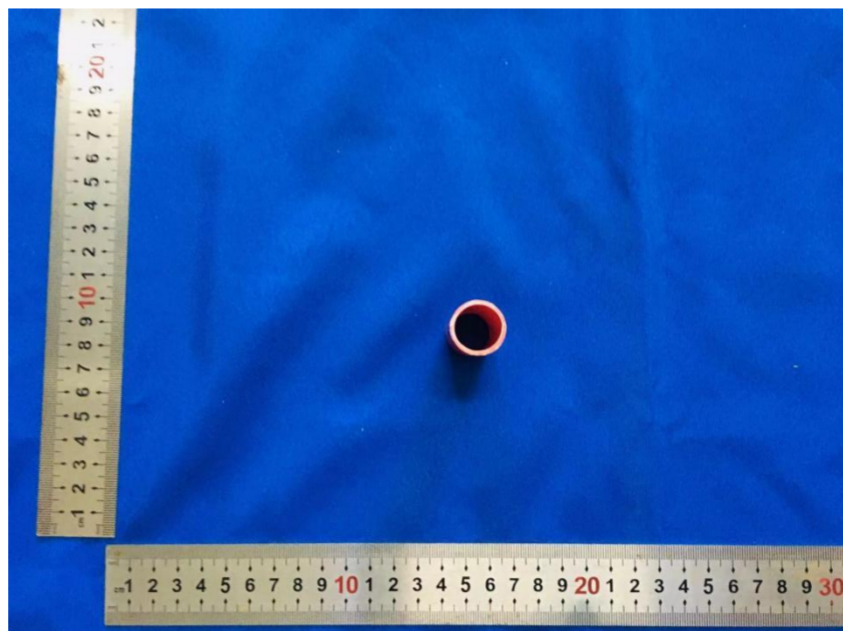
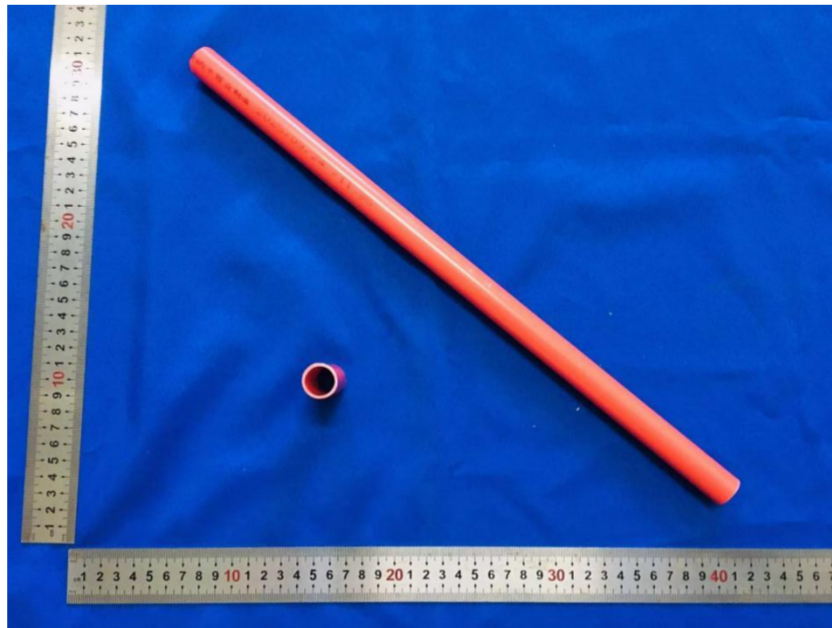
IEC 61386-21			
Clause	Requirement+Test	Result -Remark	Verdict
14.2.2.2	Test for medium protection conduit and conduit fittings:after completion of the test,the samples showed no more than two blue coloured spots on each square centimetre of the surface,and no blue spot had a dimension larger than 1,5 mm		P
14.2.2.3	Test for high protection conduit and conduit fittings: after the test,the sample showed no precipitation of copper which cannot be scrubbed off in running water,if necessary after immersion for 15 s in a 10% solution of hydrochloric acid in water		N/A
15	ELECTROMAGNETIC COMPATIBILITY		P
14.1.1	Products covered by this standards are,in normal use,passive in respect of electromagnetic influences (emission and immunity)		P

ANNEX1 TABLES

8.1	TABLE:dimension						P
	Reference Table 2IEC 60423-Outside diameters for non-threadable conduit		Reference table 102 IEC 61386-21				
Outside diameters (mm)	Tolerance (mm)	Measured (mm)	Maximum entrance diameter (mm)	Measured (mm)	Minimum junction lenght(mm)	Measured (mm)	Verdict
6	+0,0 -0,1		6,5		6		-
8	+0,0 -0,2		8,5		8		-
10	+0,0 -0,2	9,93	10,5	10,1	10	12,0	P
12	+0,0 -0,3		12,5		12		-
16	+0,0 -0,3	15,98	16,5	16,1	16	20,0	P
20	+0,0 -0,3	19,95	20,5	20,2	20	22,0	P
25	+0,0 -0,4		25,5		25		-
32	+0,0 -0,4		32,6		30		-
40	+0,0 -0,4		40,7		32		-
50	+0,0 -0,5		50,8		42		-
63	+0,0 -0,6		63,9		50		-
75	+0,0 -0,7		75,9		50		-
10.2	TABLE:compression test						P
	compression force(N)		1250				-
	tolerance 0,+4%		max force admitted(N)		1300		-
size	n°of sample	ϕi	ϕd	$\phi i - \phi d$	$\phi i - \phi d \leq 25\%$	no visible cracks	Verdict
10	1	9,95	10,99	1,04	P	no	P
10	2	9,95	10,97	1,02	P	no	P
10	3	9,97	11	1,03	P	no	P
16	1	15,98	17,23	1,25	P	no	P
16	2	15,99	17,31	1,32	P	no	P
16	3	15,98	17,29	1,31	P	no	P
20	1	19,96	20,51	0,55	P	no	P
20	2	19,95	20,48	0,53	P	no	P
20	3	19,95	20,55	0,6	P	no	P
Supplementary information							
ϕi outside diameter mesured before test							
ϕd outside diameter mesured during the application of the force							

10.3	TABLE:impact test						P
	Test temperature(°C)	-45					-
	Mass of hammer(kg)	2					-
	tolerance 0,+1%	max mass admitted(kg)		2,02			-
	Fall height(mm)	300					-
	tolerance ±1%	mix height 297		max height 303			
size	n° of sample	check with gauge		No sign of disintegration / no visible crack		Total n° of sample passed the test	Verdict
		n° of sample pass	n° of sample fail	n° of sample pass	n° of sample fail		
10	1-12	12	0	12	0	12	P
16	1-12	12	0	12	0	12	P
20	1-12	12	0	12	0	12	P

Sample pictures





*****End of report*****