TEST REPORT

Number : TWNH00104211

Applicant: Youth Toy Enterprise Co., Ltd.
No. 2, Lane 105 Chengfu Rd.
Sanxia Dist. New Taipei City, Taiwan

Issue Date : Aug 07, 2025

Sample Description:

One (1) Groups/Pieces of Submitted Samples Said To Be :

Item Name	:	ABS Series: (1)C5005A02 2 cm Linking Cubes (100pcs), (2)C5005A03 2 cm Linking Cubes (500pcs), (3)C5005A04 2 cm Linking Cubes (1000pcs), (4)G1005C01 Standard Ball Track Building Set, (5)G1005C02 Complex Ball Track Building Set
Quantity	:	1 Group
Date Sample Received	:	Jul 21, 2025
Date Test Started	:	Jul 21, 2025

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Authorized By:
On behalf of Intertek Testing Services Taiwan Limited

Matt Wang
General Manager

Signed by:

Thomas Chou
Manager

Intertek Testing Services Taiwan Ltd.
全國公證檢驗股份有限公司

8F., No. 423, Ruiguang Rd., Neihu District,
Taipei, 114690, Taiwan, R.O.C.
114690 台北市內湖區瑞光路 423 號 8 樓

Tel: (+886-2) 6602-2888 · 2797-8885
Fax: (+886-2) 6602-2420
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Conclusion:

Tested Sample	Standard	Result
Submitted Samples	Physical and Mechanical Properties – ASTM F963-23 excluding section 7.1	Pass
	Flammability Test of Materials other than Textile Materials – ASTM F963-23, section 4.2	Pass
Tested Components of Submitted Samples	Toxic Elements Analysis on Coating – As per ASTM F963-23 standard Consumer Safety Specification for Toy Safety	Pass
	Toxic Elements Analysis in Substrate – As per ASTM F963-23 standard Consumer Safety Specification for Toy Safety	Pass
	Total Lead (Pb) Content in Surface Coating – As per U.S. Consumer Product Safety Improvement Act 2008, title I, section 101	Pass
	Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate) – As per U.S. Consumer Product Safety Improvement Act 2008, title I, section 101	Pass
	Total Lead (Pb) Content – As per U.S. CFR title 16 part 1303 (CPSC Regulations)	Pass

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Conclusion:

Tested Sample	Standard	Result
Tested Components of Submitted Samples	Phthalates Content	
	— As per US 16 CFR part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
	— As per California Proposition 65 was quoted from the Consent Judgement no. BG-350969 settled by the Superior Court of the state of California for the County of Alameda, for toys based on the California Proposition 65	Pass
	— As per applicant's provided requirement	Pass

Note Applicant is drawn to the attention that the name and address of producer, importer or distributor and the advice statement of keeping relevant information of the toy shall appear on it as specified in section 7.1 of ASTM F963-23.

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Test Conducted

1. Physical And Mechanical Properties

As per ASTM F963-23 standard consumer safety specification for toy safety.

Age labeling on package / toy ：For ages over 3 years
Is age label appropriate＊1 ：Yes
Age grading specified by applicant for testing : For ages over 3 years

Section	Testing items	Assessment
4.1	Material quality (visual check on cleanliness)	P
4.3.7	Stuffing material (visual check on contaminations)	NA
4.5＊	Sound-producing toys	NA
4.6	Small objects	
4.6.1＊	Toys intended for children under 36 months	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months	P
4.7＊	Accessible edges	P
4.8＊	Projections	NA
4.9＊	Accessible points	P
4.10＊	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	P
4.13＊	Folding mechanisms and hinges	NA
4.14＊	Cords, straps and elastics	NA
4.15＊	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17＊	Wheels, tires and axles	NA
4.18＊	Holes, clearance and accessibility of mechanisms	P
4.19＊	Simulated protective devices (such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21＊	Projectile toys	NA
4.22＊	Teethers and teething toys	NA
4.23＊	Rattles	NA
4.24	Squeeze toys	NA
4.25＊	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA

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Test Conducted

Physical And Mechanical Properties (Cont'd)

Section	Testing items	Assessment
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	P
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shape objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38＊	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labeling requirements	
	- Tracking label	P
	- Safety label	P
6	Instructional literature	P
7	Producer's markings	See Note

Remarks : ＊ = The submitted samples were tested in accordance with the requirements of section 8.5 through section 8.30 e.g. Normal use testing, drop test, torque test, tension test, compression test, flexure test etc. whichever is applicable.

＊1 = Reference material CPSC's age determination guidelines 2020 and ASTM F963-23 annex A1. The most stringent test is applied if the toy or its package is not age labeled in a clear and conspicuous manner, or, based on such factors as marketing practiced and the customary patterns of usage of the toy.

P = Pass

NA = Not applicable

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2. Flammability Test

As per section 4.2 of ASTM F963-23 standard consumer safety specification on toy safety.

Specimen	Burn length (inch)	Time (second)	Burn rate (inch/ second)	Round burn rate (inch/ second)	Limit (inch/ second)	Assessment
Submitted Samples	1	60	0.02	0	0.10	P

Remarks : P = Pass

In order to pass this criteria the test product shall meet one of the following conditions :
A) Have burn rate of less than 0.10 inch/second. (Round the burn rate to the nearest tenth ,that is round 0.04 up to 0, 0.06 up to 0.10, 0.15 up to 0.2)
B) DNI = Did not ignite.
C) IBE = Ignited but self-extinguished in a very short period which cannot be measured accurately.

3. Toxic Elements Analysis on Coating

As per section 8.3.2,8.3.3 and 8.3.4 of the ASTM F963-23 and CPSIA Test Method: CPSC-CH-E1003-09.1, acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Element	Result (mg/kg) (18)	Detection Limit (mg/kg)	Limit (mg/kg)
Tot. Lead (Pb)	ND	20	90
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Chromium (Cr)	ND	5	60
Sol. Barium (Ba)	ND	5	1000
Sol. Mercury (Hg)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Arsenic (As)	ND	2.5	25

Remarks: Sol. = Soluble
Tot. = Total
ND = Not detected
The results of soluble elements content were adjusted by subtracting analytical correction factor.

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4. Toxic Elements Analysis in Substrate

As per section 8.3.5 of the ASTM F963-23 and CPSIA test method: CPSC-CH-E1001-08.3 (metal substrates) and CPSC-CH-E1002-08.3 (non-metal substrates), acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Element	Result (mg/kg)						Detection Limit	Limit
	(1)	(2)	(3)	(4)	(5)	(6)	(mg/kg)	(mg/kg)
Tot. Lead (Pb)	ND	ND	ND	ND	ND	ND	20	100
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Element	Result (mg/kg)						Detection Limit	Limit
	(7)	(8)	(9)	(10)	(11)	(12)	(mg/kg)	(mg/kg)
Tot. Lead (Pb)	ND	ND	ND	ND	ND	ND	20	100
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	5	60
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	5	60
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	5	1000
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	5	500
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	2.5	25

Element	Result (mg/kg)					Detection Limit	Limit
	(13)	(14)	(15)	(16)(#1)	(17)	(mg/kg)	(mg/kg)
Tot. Lead (Pb)	ND	ND	ND	ND	ND	20	100
Sol. Lead (Pb)	ND	ND	ND	--	ND	5	90
Sol. Cadmium (Cd)	ND	ND	ND	--	ND	5	75
Sol. Antimony (Sb)	ND	ND	ND	--	ND	5	60
Sol. Chromium (Cr)	ND	ND	ND	--	ND	5	60
Sol. Barium (Ba)	ND	ND	ND	--	ND	5	1000
Sol. Mercury (Hg)	ND	ND	ND	--	ND	5	60
Sol. Selenium (Se)	ND	ND	ND	--	ND	5	500
Sol. Arsenic (As)	ND	ND	ND	--	ND	2.5	25

Remarks: Sol. = Soluble
Tot. = Total
ND = Not detected
#1 = According to ASTM F963-23 section 4.3.5.2(1), the tested component was not within the scope for soluble test requirement.
The results of soluble elements content were adjusted by subtracting analytical correction factor.

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8F., No. 423, Ruiguang Rd., Neihu District, Taipei, 114690, Taiwan, R.O.C.
114690 台北市內湖區瑞光路 423 號 8 樓
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5. Total Lead (Pb) Content in Surface Coating

According to CPSIA test method: CPSC-CH-E1003-09.1, by acid digestion method and Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) analysis.

Tested Component	Result (ppm)	Limit (ppm)
(18)	ND	90

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
ND = Not detected
Detection limit = 20 ppm

6. Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

According to CPSIA test method: CPSC-CH-E1002-08.3(non-metal) and CPSC-CH-E1001-08.3(metal), by acid digestion and Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) analysis.

Tested Component	Result (ppm)	Limit (ppm)
(1)	ND	100
(2)	ND	100
(3)	ND	100
(4)	ND	100
(5)	ND	100
(6)	ND	100
(7)	ND	100
(8)	ND	100
(9)	ND	100
(10)	ND	100
(11)	ND	100
(12)	ND	100
(13)	ND	100
(14)	ND	100
(15)	ND	100
(16)	ND	100
(17)	ND	100

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
ND = Not detected
Detection limit = 20 ppm

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114690 台北市內湖區瑞光路 423 號 8 樓
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Test Conducted

7. Total Lead (Pb) Content

As per U.S. code of federal regulations title 16 part 1303, acid digestion method was used and total lead content was determined by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Tested Component	Result (%)	Limit (%)
(18)	ND	0.009

Remarks: % = Percentage based on weight of tested sample
ND = Not detected
Detection limit = 0.0020 %

8. Phthalates Content

With reference to CPSIA test method: CPSC-CH-C1001-09.4, by solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (%) (1/2/3)	(4/5/6)	(7/8/9)	(10/11/12)	Limit[A] (%)	Limit[B] (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	ND	0.1	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1	0.1
Di-*iso*-decyl phthalate (DIDP)	ND	ND	ND	ND	--	0.1
Di-*iso*-nonyl phthalate (DINP)	ND	ND	ND	ND	0.1	--
Di-*iso*-butyl phthalate (DIBP)	ND	ND	ND	ND	0.1	--
Di-*n*-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1	--
Di-*n*-hexyl phthalate (DHEXP, DnHP)	ND	ND	ND	ND	0.1	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1	--

Compound	Result (%) (13/14)	(17)	(18)	Limit[A] (%)	Limit[B] (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	0.1	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	0.1	0.1
Di-*iso*-decyl phthalate (DIDP)	ND	ND	ND	--	0.1
Di-*iso*-nonyl phthalate (DINP)	ND	ND	ND	0.1	--
Di-*iso*-butyl phthalate (DIBP)	ND	ND	ND	0.1	--
Di-*n*-pentyl phthalate (DPENP)	ND	ND	ND	0.1	--
Di-*n*-hexyl phthalate (DHEXP, DnHP)	ND	ND	ND	0.1	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	0.1	--

Remarks: % = Percentage based on weight of tested sample
ND = Not detected
Detection limit = 0.010 %
A = Limit of US 16 CFR part 1307
B = Limit of California Proposition 65
The above limit was quoted from the Consent Judgement No. BG-350969 settled by the Superior Court of the state of California for the county of Alameda, for toys based on the California Proposition 65.

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114690 台北市內湖區瑞光路 423 號 8 樓
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Test Conducted

9. Phthalates Content

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (%) (1/2/3)	(4/5/6)	(7/8/9)	(10/11/12)	Limit#2 (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	0.1
Di-*iso*-nonyl phthalate (DINP)	ND	ND	ND	ND	0.1
Di-*iso*-butyl phthalate (DIBP)	ND	ND	ND	ND	0.1
Di-*n*-pentyl phthalate (DPENP)	ND	ND	ND	ND	0.1
Di-*n*-hexyl phthalate (DHEXP)	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.1
Di-*iso*-decyl phthalate (DIDP)	ND	ND	ND	ND	0.1
Di-*n*-octyl phthalate (DNOP)	ND	ND	ND	ND	0.1

Compound	Result (%) (13/14)	(17)	(18)	Limit#2 (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	0.1
Di-*iso*-nonyl phthalate (DINP)	ND	ND	ND	0.1
Di-*iso*-butyl phthalate (DIBP)	ND	ND	ND	0.1
Di-*n*-pentyl phthalate (DPENP)	ND	ND	ND	0.1
Di-*n*-hexyl phthalate (DHEXP)	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	0.1
Di-*iso*-decyl phthalate (DIDP)	ND	ND	ND	0.1
Di-*n*-octyl phthalate (DNOP)	ND	ND	ND	0.1

Remarks: % = Percentage based on weight of tested sample
ND = Not detected
Detection limit = 0.005 %
#2 = As per applicant's provided requirement

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Tested Components:
(1) Red plastic block
(2) Yellow plastic block
(3) Blue plastic block
(4) Green plastic block
(5) Orange plastic block
(6) Purple plastic block
(7) Grass green plastic block
(8) Brown plastic block
(9) Black plastic block
(10) White plastic block
(11) Yellow plastic frame
(12) Blue plastic frame
(13) Grey plastic frame
(14) White plastic frame
(15) Clear glass marble
(16) Silvery metal staple
(17) Transparent plastic zipper bag
(18) Black coating on zipper bag (#3)

Remarks: #3 = As applicant's request, the alternative paint was dried at 105 ℃ for 13 hours before test.

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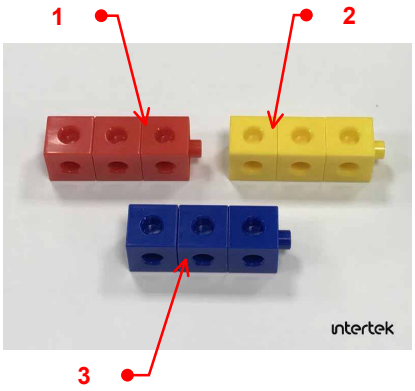
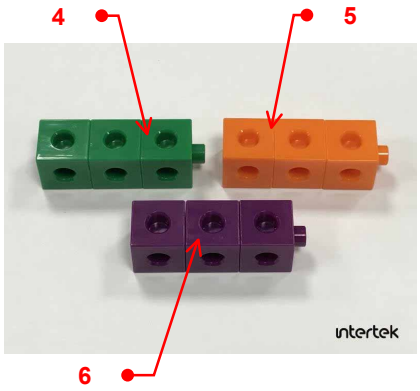
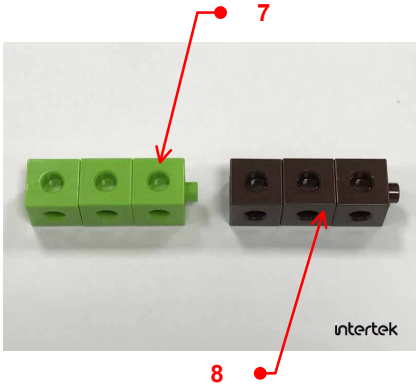
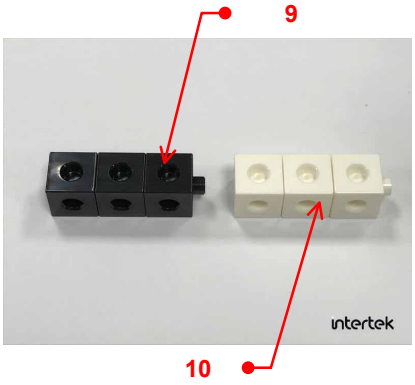
Sample photo:









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8F., No. 423, Ruiguang Rd., Neihu District,
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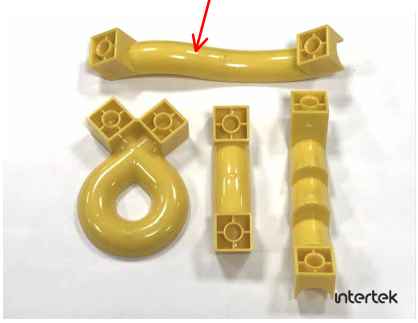

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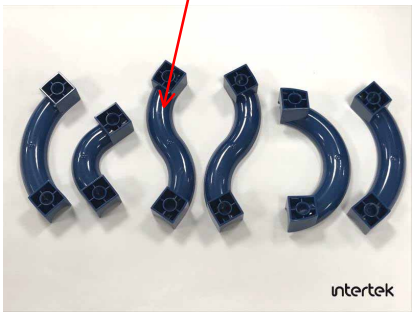

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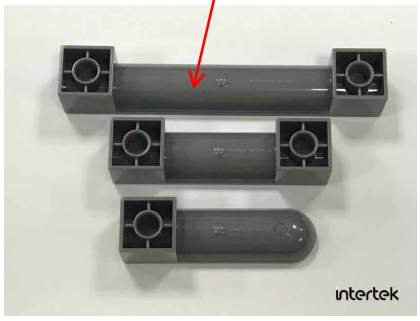

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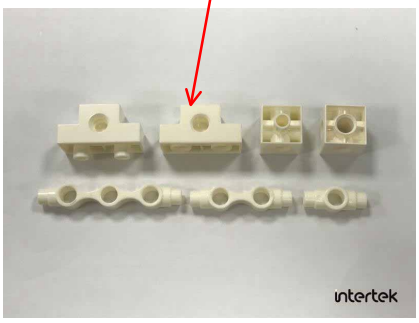

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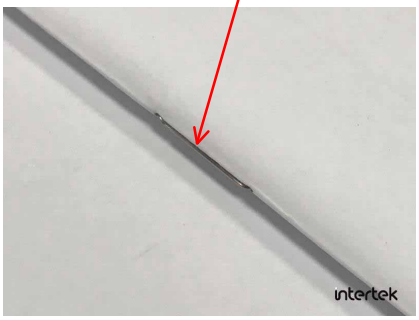

Intertek Testing Services Taiwan Ltd.
全國公證檢驗股份有限公司

8F., No. 423, Ruiguang Rd., Neihu District,
Taipei, 114690, Taiwan, R.O.C.
114690 台北市內湖區瑞光路 423 號 8 樓

Tel: (+886-2) 6602-2888 · 2797-8885
Fax: (+886-2) 6602-2420
www.intertek-twn.com

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End of Report

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