



# TEST REPORT

OVERALL RATING	
×	PASS
	FAIL

## Test information

<b>Applicant</b>	: ZHEJIANG ISTAR IMPORT&EXPORT CO.,LTD.
<b>Address</b>	: No.17 jinhui road,yiwu city,zhejiang province,China.
<b>Sample Description</b>	: Necklace.
<b>PO #</b>	: Not provided.
<b>Style #</b>	: 720306.
<b>Supplier</b>	: ZHEJIANG ISTAR IMPORT&EXPORT CO.,LTD
<b>Labeled Age Grade</b>	: --.
<b>Client Request Age Grade</b>	: 3 years +.
<b>Age grade for testing</b>	: 3 years +.
<b>Country of origin</b>	: China.
<b>Export to</b>	: Denmark.
<b>Buyer</b>	: Vestergaard A/S.
<b>Receiving Date</b>	: April 06, 2023.
<b>Test period</b>	: April 06, 2023.~April 11, 2023.
<b>Test Requested</b>	: Tests requested in accordance to client requirement.

Signed for and on behalf of  
RTS TEST CO., LTD. (Zhejiang)



CHANGBIAO YU

BINBIN ZOU

Approved signatory



Scan to follow us



Scan for authenticity

### Zhejiang RTS Test Co., LTD.

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<u>TEST ITEMS</u>	<u>CONCLUSIONS</u>
EN71-1:2014+A1:2018 - Mechanical and Physical Properties(Excepted clause 7 Warnings, markings and instructions for use as per client's request)	PASS
EN71-2:2020 - Flammability	PASS
EN71-3:2019+A1:2021 - Migration of Certain Elements	PASS
Entry 51&52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates content	PASS
PFAS content test	See the result

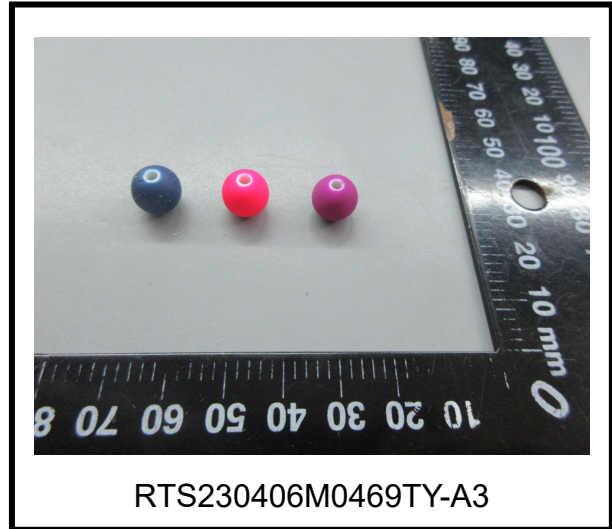
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**Sample image:**



Test Number	Item/ component description(s)
A	Necklace overall
A1	White square bead
A2	(red & yellow & purple) plastic bead
A3	(blue & rose red & purple) plastic bead

**Test result:****A. European Standard-Safety of Toys: EN71-1:2014+A1:2018 Mechanical and Physical Properties:**

Section(s)	Test	Test Results A
4	General Requirements	
4.1	Material cleanliness	PASS
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.10.1	Folding & sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks & Helmets	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.15.1	Toys propelled by a child or other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses & similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys	N/A
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectiles toys with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A

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Section(s)	Test	Test Results A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-Yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically driven toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	N/C

Remark: N/A= Not Applicable, N/C= Not Conducted as per client's request.

**B. European Standard-Safety of Toys: EN71-2:2020 - Flammability :**

Test Item(s)	Observation	Test Results A
4.1 General	No visual signs of Cellulose Nitrate and highly flammable solids	PASS
4.2 Toys to be worn on the head	/	N/A
4.3 Toy disguise costumes and toys intended to be worn by a child in play	/	N/A
4.4 Toys intended to be entered by a child	/	N/A
4.5 Soft-filled toys	/	N/A

**Remark:** N/A= Not Applicable

**C. European Standard-Safety of Toys: EN71-3:2019+A1:2021 Migration of Certain Elements:** (Unit: mg/kg)

Elements	MDL	Test Results	Limit Value Category III
		A1	
Soluble Aluminum(Al)	50	N.D.	28130
Soluble Antimony (Sb)	10	N.D.	560
Soluble Arsenic(As)	10	N.D.	47
Soluble Barium (Ba)	50	N.D.	18750
Soluble Boron (B)	50	N.D.	15000
Soluble Cadmium(Cd)	5	N.D.	17
Soluble trivalent chromium(Cr+3)	5	N.D.	460
Soluble Chromium VI (Cr+6)*	0.01	N.D.	0.053
Soluble Cobalt(Co)	10	N.D.	130
Soluble Copper(Cu)	50	N.D.	7700
Soluble Lead(Pb)	5	N.D.	23
Soluble Manganese(Mn)	50	N.D.	15000
Soluble Mercury(Hg)	10	N.D.	94
Soluble Nickel(Ni)	10	N.D.	930
Soluble Selenium(Se)	10	N.D.	460
Soluble Strontium(Sr)	50	N.D.	56000
Soluble Tin(Sn)	4.9	N.D.	180000
Soluble Organic tin**	4.9	N.D.	12
Soluble Zinc(Zn)	50	N.D.	46000

**Explain:**

1)"--"= Not clearly defined

2)N.D. = not detected, less than MDL(Method Detection Limit).

3)▲ = sample was tested in mixture.

4) If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI are confirmed by ion speciation techniques

\*: The chromium VI content is determined by LC-ICP-MS or High resolution UV-VIS spectroscopy. (If confirmation is done only)

5) If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of Organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and marked with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis.

\*\* : The Organic Tin content is determined by GC-MS. (If confirmation is done only).

**Test Method:** In accordance with EN71-3:2019+A1:2021:

1. To determine the soluble heavy metals content, Analysis was preformed by LC-ICP-MS.
2. To determine the Chromium VI (Cr+6) content, Analysis was preformed by LC-ICP-MS.
3. To determine the organic tin content, Analysis was preformed by GC-MS.

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**D. Phthalates Content:** (Unit: mg/kg)

Entry 51&amp;52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:** With reference to EN 14372:2004-6.3.2, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(s)
A2	(red & yellow & purple) plastic bead

Test Item(s)	CAS No.	Results A2▲	MDL	Limit value
Dibutyl Phthalate(DBP)	84-74-2	N.D.	50	-
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	50	-
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	56	50	-
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	50	-
Total(DBP+BBP+DEHP+DIBP)		56	-	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	50	-
Diisodecyl Phthalate(DIDP)	26761-40-0 & 68515-49-1	N.D.	50	-
Di-iso-nonyl Phthalate(DINP)	28553-12-0 & 68515-48-0	N.D.	50	-
Total(DNOP+DIDP+DINP)		N.D.	-	1000
<b>Conclusion:</b>		PASS	-	-

**Note:**

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3)“▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

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**E. PFAS content test:** (Unit: mg/kg)

**Test method:** As per CEN/TS 15968:2010, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A3	(blue & rose red & purple) plastic bead

Test item	Test Number	MDL	Test Result
PFAS	A3▲	5	N.D.

**Note:**

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----- End of Report -----