



TEST REPORT

| OVERALL RATING | |
|----------------|------|
| × | PASS |
| | FAIL |

Test information

| | |
|---------------------------|--|
| Applicant | : Xiamen Timesrui Polymeric Material Technology Co., Ltd. |
| Address | : Room 302, No.10 Punan 1 road, Xiamen City,Fujian Province, China,361004. |
| Sample Description | : CLEAR HARD RESIN. |
| PO # | : Not provided. |
| Style # | : Not provided. |
| Country of origin | : China. |
| Export to | : Not provided. |
| Buyer | : Not provided. |
| Receiving Date | : February 26, 2022. |
| Test period | : February 26, 2022.~March 04, 2022. |
| Amended Date | : March 04, 2022. |
| Test Requested | : Tests requested in accordance to client requirement. |

| TEST ITEMS | CONCLUSIONS |
|---|-------------|
| EN71-2:2020 - Flammability | PASS |
| EN71-3:2019+A1:2021 - Migration of Certain Elements | PASS |
| EN71-9:2005 - Organic Chemical Components | PASS |
| Entry 48 of Commission Regulation (EC) 552/2009 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Toluene content | PASS |

Signed for and on behalf of

RTS TEST CO., LTD. (Zhejiang)

CHANGBIAO YU

Approved signatory



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Scan for authenticity

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Sample image:

| Test Number | Item/ component description(s) |
|-------------|--------------------------------|
| A | CLEAR HARD RESIN |
| A1 | Transparent hard resin |

**Test result:****A. 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. | 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

**B. 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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**C. [△]EN71-9:2005 /A1:2007; EN71-10 and 11:2005 Table 2D Monomers Content Test:(Unit: mg/l)****Test Method:** EN71-10 and EN71-11:2005 Table 2D Monomers.

| Test Number | Item/ component description(s) | | | |
|--------------------|--------------------------------|------|--------------------|-------|
| A1 | Transparent hard resin | | | |
| Test item(s) | CAS No. | MDL | Test Results A1 | Limit |
| Acrylamide | 79-06-1 | 0.02 | N.D. | 0.02 |
| Bisphenol A | 80-05-7 | 0.1 | N.D. | 0.1 |
| Formaldehyde | 50-00-0 | 0.1 | N.D. | 2.5 |
| Phenol | 108-95-2 | 0.5 | N.D. | 15 |
| Styrene | 100-42-5 | 0.1 | N.D. | 0.75 |
| Conclusion: | | | 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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**D. [△]Toluene Content:** (Unit: mg/kg)

Entry 48 of Commission Regulation (EC) 552/2009 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

Test method: With reference to US EPA 3540C:1996 & US EPA8270D:2014, extraction with methanol followed by GC-MS.

| Test Number | Item/ component description(s) |
|-------------|--------------------------------|
| A1 | Transparent hard resin |

| Test Item | CAS No. | MDL | Test Results | Limit Value |
|-------------------|------------|-----|--------------|-------------|
| | | | A1 | |
| Toluene | [108-88-3] | 50 | N.D. | 1000 |
| Conclusion | | | PASS | - |

Note:

- 1) MDL=Method Detection Limit.
- 2) N.D. = Not detected, less than MDL.
- 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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