

TEST REPORT

Test Report # 20H-000603 Date of Report Issue: February 13, 2020
Date of Sample Received: February 10, 2020 Pages: Page 1 of 12

CLIENT INFORMATION:

Company: Numo Manufacturing
Recipient: Rebecca Williams
Recipient Email: rwilliams@numomfg.com



SAMPLE INFORMATION:

| | | | |
|--------------------------|-------------------------|------------------------|-------|
| Description: | ZP/SL45 ZIPPER CHAIN | Purchase Order Number: | - |
| Assortment: | - | Toy Co./Agency: | - |
| SKU/style No.: | - | Country of Origin: | China |
| Factory/Supplier/Vendor: | Numo Manufacturing | Labeled Age Grade: | - |
| Country of Distribution: | - | Recommended Age Grade: | - |
| Quantity Submitted: | 1 lot | Tested Age Grade: | - |
| Testing Period: | 02/10/2020 – 02/13/2020 | | |

OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

| CONCLUSION | TEST(S) CONDUCTED |
|------------|--|
| PASS | CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings |
| PASS | California Proposition 65, Total Lead in Paints and Surface Coatings |
| PASS | Client's Requirement, Total Cadmium in Paints and Similar Surface Coatings |
| PASS | CPSIA Section 101, Total Lead in Substrate Materials |
| PASS | California Proposition 65, Total Lead in Substrate Materials |
| PASS | Client's Requirement, Total Cadmium in Substrate Materials |
| PASS | California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP) |
| PASS | 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP) |

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DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | --- | --- | --- | --- | Total Limit (ppm) |
|-------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Lead (Pb) | ND | --- | --- | --- | --- | 90 |
| Conclusion | PASS | --- | --- | --- | --- | |

Note:
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 20 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | --- | --- | --- | --- | Total Limit (ppm) |
|-------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Lead (Pb) | ND | --- | --- | --- | --- | 90 |
| Conclusion | PASS | --- | --- | --- | --- | |

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The specification is quoted from client's requirement.

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DETAILED RESULTS:

Client's Requirement, Total Cadmium in Paints and Similar Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | --- | --- | --- | --- | Limit (ppm) |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Cadmium (Cd) | ND | --- | --- | --- | --- | 40 |
| Conclusion | PASS | --- | --- | --- | --- | |

Note:
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 20 ppm)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

CPSIA Section 101, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 2 | 3 | 4 | 5 | --- | Total Limit (ppm) |
|-----------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Lead (Pb) | ND | ND | 22 | 24 | --- | 100 |
| Conclusion | PASS | PASS | PASS | PASS | --- | |

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 2 | 3 | 4 | 5 | --- | Total Limit (ppm) |
|-------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Lead (Pb) | ND | ND | 22 | 24 | --- | 100 |
| Conclusion | PASS | PASS | PASS | PASS | --- | |

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

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DETAILED RESULTS:

Client's Requirement, Total Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 2 | 3 | 4 | 5 | --- | Limit (ppm) |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Cadmium (Cd) | ND | ND | ND | ND | --- | 40 |
| Conclusion | PASS | PASS | PASS | PASS | --- | |

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

| Specimen No. | | 1 | 2 | 3 | --- | Limit (mg/kg) |
|------------------------------------|--------------------------|----------------|----------------|----------------|----------------|---------------|
| Test Item | CAS No. | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | ND | ND | --- | 1000 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | ND | ND | --- | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | ND | ND | --- | 1000 |
| Diisononyl phthalate (DINP) | 28553-12-0 68515-48-0 | ND | ND | ND | --- | 1000 |
| Diisodecyl phthalate (DIDP) | 26761-40-0 68515-49-1 | ND | ND | ND | --- | 1000 |
| Di-n-hexyl phthalate (DnHP) | 84-75-3 | ND | ND | ND | --- | 1000 |
| Conclusion | | PASS | PASS | PASS | --- | |

Note:
 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
 LT = Less than
 ND = Not detected (Reporting Limit = 300 mg/kg)
 Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
 The specification is quoted from client's requirement.

DETAILED RESULTS:

16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

| Specimen No. | | 1 | 2 | 3 | --- | Limit (mg/kg) |
|-------------------------------------|--------------------------|----------------|----------------|----------------|----------------|---------------|
| Test Item | CAS No. | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | ND | ND | --- | 1000 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | ND | ND | --- | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7 | ND | ND | ND | --- | 1000 |
| Diisononyl phthalate (DINP) | 28553-12-0 68515-48-0 | ND | ND | ND | --- | 1000 |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3 | ND | ND | ND | --- | 1000 |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | ND | ND | ND | --- | 1000 |
| Diisobutyl phthalate (DIBP) | 84-69-5 | ND | ND | ND | --- | 1000 |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | ND | ND | ND | --- | 1000 |
| Conclusion | | PASS | PASS | PASS | --- | |

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 mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
 LT = Less than
 ND = Not detected (Reporting Limit = 300 mg/kg)
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SPECIMEN DESCRIPTION:

| Specimen No. | Specimen Description | Location |
|--------------|----------------------|------------------------|
| 1 | Black coating | On zipper head/ puller |
| 2 | Black textile | Zipper tape |
| 3 | Black plastic | Zipper teeth |
| 4 | Silvery metal | Zipper head |
| 5 | Dull silvery metal | Zipper puller |

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SAMPLE PHOTO:



-End Report-

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