

## TEST REPORT

Test Report # 19H-009620 Date of Report Issue: January 6, 2020  
Date of Sample Received: December 30, 2019 Pages: Page 1 of 16

### CLIENT INFORMATION:

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



### SAMPLE INFORMATION:

Description: Le Pen: Mint, Lt. Green, Black, Oriental Blue, Yellow, Amethyst, Olive, Coral, Dk Grey, Blue, Periwinkle, Laundry, Brown, Orange  
Assortment: - Purchase Order Number: -  
SKU/style No.: - Toy Co./Agency: -  
Factory/Supplier/Vendor: Numo Manufacturing Country of Origin: Japan  
Country of Distribution: - Labeled Age Grade: -  
Quantity Submitted: 6 pcs per style Recommended Age Grade: -  
Testing Period: 12/31/2019 – 01/06/2020 Tested Age Grade: -  
Previous Test Report No.: 18H-001660

### 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(s) marked with 'φ' was subcontracted to external 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       | Client's Requirement, Total Cadmium in Paints and Similar Surface Coatings   |
| PASS       | CPSIA Section 101, 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) |

### Remark:

By client's request, selected components were conducted for all chemical testing.

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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                |
| <b>Conclusion</b> | 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:**

**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          |
| <b>Conclusion</b>  | PASS         | ---          | ---          | ---          | ---          |             |

*Note:*

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LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

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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            | 6            | Total<br>Limit<br>(ppm) |
|-------------------|--------------|--------------|--------------|--------------|--------------|-------------------------|
| Test Item         | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) |                         |
| Total Lead (Pb)   | ND           | ND           | ND           | ND           | ND           | <b>100</b>              |
| <b>Conclusion</b> | PASS         | PASS         | PASS         | PASS         | PASS         |                         |

| Specimen No.      | 7            | 8            | 9            | 10           | 11           | Total<br>Limit<br>(ppm) |
|-------------------|--------------|--------------|--------------|--------------|--------------|-------------------------|
| Test Item         | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) |                         |
| Total Lead (Pb)   | ND           | ND           | ND           | ND           | ND           | <b>100</b>              |
| <b>Conclusion</b> | PASS         | PASS         | PASS         | PASS         | PASS         |                         |

| Specimen No.      | 12           | 13           | 14           | 15           | 16           | Total<br>Limit<br>(ppm) |
|-------------------|--------------|--------------|--------------|--------------|--------------|-------------------------|
| Test Item         | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) |                         |
| Total Lead (Pb)   | ND           | ND           | ND           | ND           | ND           | <b>100</b>              |
| <b>Conclusion</b> | PASS         | PASS         | PASS         | PASS         | PASS         |                         |

*Note:*

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

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

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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            | 6            | Limit (ppm) |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Test Item          | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) |             |
| Total Cadmium (Cd) | ND           | ND           | ND           | ND           | ND           | 40          |
| <b>Conclusion</b>  | PASS         | PASS         | PASS         | PASS         | PASS         |             |

| Specimen No.       | 7            | 8            | 9            | 10           | 11           | Limit (ppm) |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Test Item          | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) |             |
| Total Cadmium (Cd) | ND           | ND           | ND           | ND           | ND           | 40          |
| <b>Conclusion</b>  | PASS         | PASS         | PASS         | PASS         | PASS         |             |

| Specimen No.       | 12           | 13           | 14           | 15           | 16           | Limit (ppm) |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Test Item          | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) |             |
| Total Cadmium (Cd) | ND           | ND           | ND           | ND           | ND           | 40          |
| <b>Conclusion</b>  | PASS         | PASS         | PASS         | PASS         | PASS         |             |

*Note:*  
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 LT = Less than  
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**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.                       |                          | 2              | 3              | 4              | 5              | 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             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)        | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Diisodecyl phthalate (DIDP)        | 26761-40-0<br>68515-49-1 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DnHP)        | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                  |                          | PASS           | 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:**

**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.                       |                          | 6              | 7              | 8              | 9              | 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             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)        | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Diisodecyl phthalate (DIDP)        | 26761-40-0<br>68515-49-1 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DnHP)        | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                  |                          | PASS           | PASS           | PASS           | PASS           |               |

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**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.                       |                          | 10                | 11                | 12                | 13                | Limit<br>(mg/kg) |
|------------------------------------|--------------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Test Item                          | CAS No.                  | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) |                  |
| Dibutyl phthalate (DBP)            | 84-74-2                  | ND                | ND                | ND                | ND                | 1000             |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | ND                | ND                | ND                | ND                | 1000             |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | ND                | ND                | ND                | ND                | 1000             |
| Diisononyl phthalate (DINP)        | 28553-12-0<br>68515-48-0 | ND                | ND                | ND                | ND                | 1000             |
| Diisodecyl phthalate (DIDP)        | 26761-40-0<br>68515-49-1 | ND                | ND                | ND                | ND                | 1000             |
| Di-n-hexyl phthalate (DnHP)        | 84-75-3                  | ND                | ND                | ND                | ND                | 1000             |
| <b>Conclusion</b>                  |                          | PASS              | PASS              | PASS              | PASS              |                  |

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**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.                                      | 14             | 15             | ---            | ---            | 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             | ---            | ---            | 1000          |
| Benzyl butyl phthalate (BBP) 85-68-7              | ND             | ND             | ---            | ---            | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP) 117-81-7       | ND             | ND             | ---            | ---            | 1000          |
| Diisononyl phthalate (DINP) 28553-12-0 68515-48-0 | ND             | ND             | ---            | ---            | 1000          |
| Diisodecyl phthalate (DIDP) 26761-40-0 68515-49-1 | ND             | ND             | ---            | ---            | 1000          |
| Di-n-hexyl phthalate (DnHP) 84-75-3               | ND             | ND             | ---            | ---            | 1000          |
| <b>Conclusion</b>                                 | PASS           | PASS           | ---            | ---            |               |

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 LT = Less than  
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**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.                        |                          | 2              | 3              | 4              | 5              | 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             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP)  | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)         | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7                  | ND             | ND             | ND             | ND             | 1000          |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | ND             | ND             | ND             | ND             | 1000          |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0                 | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                   |                          | PASS           | PASS           | PASS           | PASS           |               |

*Note:*  
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 LT = Less than  
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**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.                        |                          | 6              | 7              | 8              | 9              | 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             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP)  | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)         | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7                  | ND             | ND             | ND             | ND             | 1000          |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | ND             | ND             | ND             | ND             | 1000          |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0                 | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                   |                          | PASS           | PASS           | PASS           | PASS           |               |

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**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.                        |                          | 10             | 11             | 12             | 13             | 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             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP)  | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)         | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7                  | ND             | ND             | ND             | ND             | 1000          |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | ND             | ND             | ND             | ND             | 1000          |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0                 | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                   |                          | PASS           | 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.

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**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.                        |                          | 14             | 15             | ---            | ---            | 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             | ---            | ---            | 1000          |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | ND             | ND             | ---            | ---            | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP)  | 117-81-7                 | ND             | ND             | ---            | ---            | 1000          |
| Diisononyl phthalate (DINP)         | 28553-12-0<br>68515-48-0 | ND             | ND             | ---            | ---            | 1000          |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3                  | ND             | ND             | ---            | ---            | 1000          |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7                  | ND             | ND             | ---            | ---            | 1000          |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | ND             | ND             | ---            | ---            | 1000          |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0                 | ND             | ND             | ---            | ---            | 1000          |
| <b>Conclusion</b>                   |                          | 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.

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**SPECIMEN DESCRIPTION:**

| Specimen No. | Specimen Description | Location  |
|--------------|----------------------|---|
| 1            | Silvery coating      | On barrel (all styles)                          |
| 2            | Light green plastic  | Cap/ barrel/ tip/ end cap (Mint style)          |
| 3            | Green plastic        | Cap/ barrel/ tip/ end cap (Lt. Green style)     |
| 4            | Black plastic        | Cap/ barrel/ tip/ end cap (Black style)         |
| 5            | Navy plastic         | Cap/ barrel/ tip/ end cap (Oriental Blue style) |
| 6            | Yellow plastic       | Cap/ barrel/ tip/ end cap (Yellow style)        |
| 7            | Deep purple plastic  | Cap/ barrel/ tip/ end cap (Amethyst style)      |
| 8            | Dark green plastic   | Cap/ barrel/ tip/ end cap (Olive style)         |
| 9            | Pink plastic         | Cap/ barrel/ tip/ end cap (Coral style)         |
| 10           | Grey plastic         | Cap/ barrel/ tip/ end cap (Dk Grey style)       |
| 11           | Deep blue plastic    | Cap/ barrel/ tip/ end cap (Blue style)          |
| 12           | Pale purple plastic  | Cap/ barrel/ tip/ end cap (Periwinkle style)    |
| 13           | Purple plastic       | Cap/ barrel/ tip/ end cap (Launder style)       |
| 14           | Brown plastic        | Cap/ barrel/ tip/ end cap (Brown style)         |
| 15           | Orange plastic       | Cap/ barrel/ tip/ end cap (Orange style)        |
| 16           | Bright silvery metal | Clip (all styles)                               |

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**SAMPLE PHOTO:**



-End Report-

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