



**BUREAU
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION



SILVERLIT TOYS MANUFACTORY LIMITED

Technical Report: (5219)350-0508
Date Received: December 16, 2019

January 07, 2020
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MARTIN CHIM
SILVERLIT TOYS MANUFACTORY LIMITED
RM1102 EAST OCEAN CENTRE
98 GRANVILLE ROAD
TSIM SHA TSUI
KOWLOON
HONG KONG

Sample Description: ROBO KOMBAT - BALLOON PUNCHER

- 1.) CHANNEL A/B
- 2.) CHANNEL C/D

| | | | |
|-----------------------------|----------------------------|--------------------|-------|
| Vendor: | N/A | Sample Size: | 12 |
| Manufacturer: | N/A | Style No(s): | 88038 |
| Buyer: | N/A | SKN/SKU No.: | N/A |
| Labeled Age Grade: | 5+ | PO No.: | N/A |
| Appropriate Age Grade: | OVER 6 YEARS OF AGE | Ref #: | N/A |
| Client Specified Age Grade: | 3+ | Country of Origin: | CHINA |
| Tested Age Grade: | OVER 3 YEARS OF AGE | Assortment No.: | N/A |
| UPC Code: | 4891813880387 | | |
| Test Starting Date: | DECEMBER 16, 2019 | | |
| Test Finished Date: | JANUARY 07, 2020 | | |
| Terminal voltage: | 4.5 V FOR RX 3.0 FOR TX | | |

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The requirements of the tested clauses of the European Standard EN 62115: 2005 + A2: 2011 + A11: 2012 + A12: 2015, "Electric toys - Safety"

Compliance with this standard is also on condition that the toy complies with EN71 Standard

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Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 058) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



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EXECUTIVE SUMMARY:

- Note: The submitted sample incorporating lasers or light emitting diodes (LED), compliance with the standard covered by this report is on condition that the lasers or light emitting diodes in toys are classified as Class 1 in accordance with IEC 60825-1 Standard under the condition specified in Annex E of EN 62115 / IEC 62115.
- Note: Compliance with this standard is also on condition that the components as specified in clause 16 comply with the safety requirements specified in the relevant standard.

BUREAU VERITAS HONG KONG LIMITED

Law Yiu Tung
Assistant Manager
Electrical Department

LYT/dl

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RESULTS:

European Standard EN 62115: 2005 + A2: 2011 + A11: 2012 + A12: 2015, “Electric toys - Safety”

| Clause | Parameter | Result |
|----------|--|-----------------------|
| 5.13 | Electrical connection can be made as reversed polarity due to incorrect insertion. | NOT POSSIBLE |
| 7 | Marking and Instructions | M |
| 8 | Power input | NA |
| 9 | Heating and abnormal operation | M-See Remark |
| 10 | Electric strength at operating temperature | M |
| 11 | Moisture resistance | M |
| 12 | Electric strength at room temperature | M |
| 13 | Mechanical strength | M |
| 14 | Construction | M |
| 15 | Protection of cords and wires | M |
| 16 | Components | M |
| 17 | Screws and connections | M |
| 18 | Creepage distance and clearances | M |
| 19 | Resistance to heat and fire | M |
| 20 | Radiation, toxicity and similar hazards | See Executive Summary |
| Annex ZB | Toys with protective electronic circuit | NA |
| Annex ZC | Toys generating Electromagnetic Fields (EMF) | NA |

M = Meet
NA = Not applicable

NM/R = Not Meet-refer to Comment Section
NR = Not requested by the client

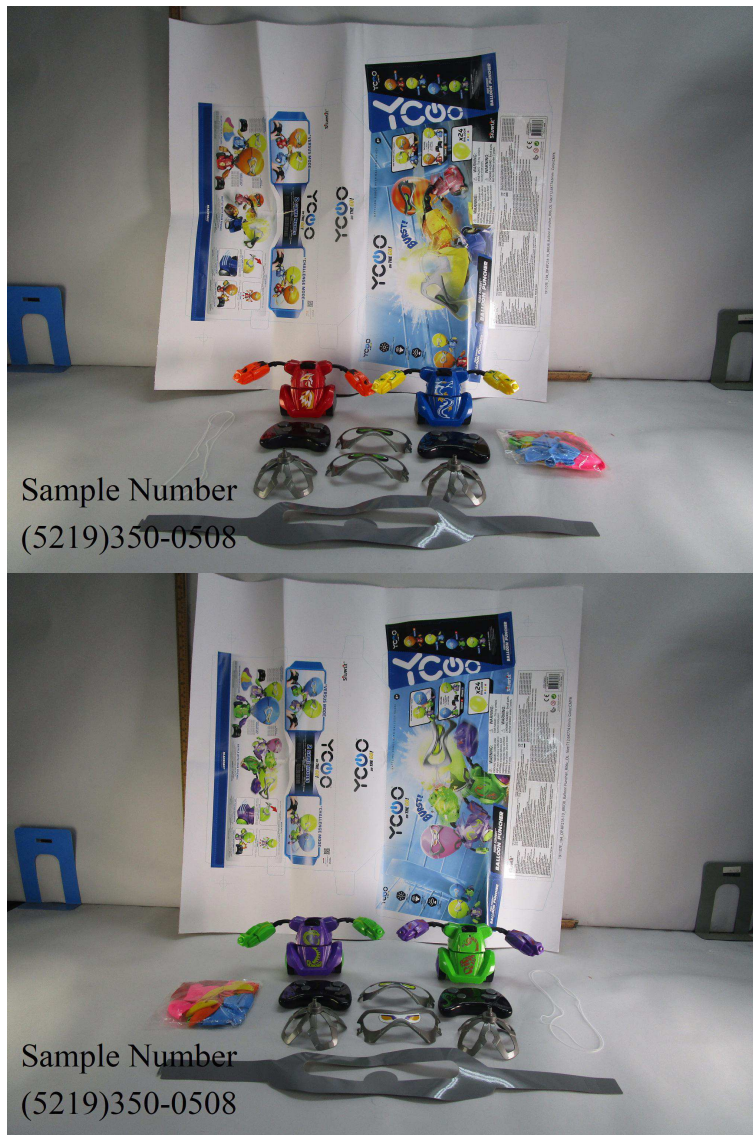


RESULTS:

Remark:

| Clause | Parameter | | | | | | | | | | | | |
|-----------------------------|---|------------------|-----------------------------|------------------|----------------------|-----|----|-----------------------------|------|----|---------------------|------|----|
| 9.3 | <p>The maximum temperature rises at normal operation were recorded as follows: Ambient Temperature (°C): 23.4</p> <table border="1"> <thead> <tr> <th><u>Location</u></th> <th><u>Temperature Rise (K)</u></th> <th><u>Limit (K)</u></th> </tr> </thead> <tbody> <tr> <td>Battery Surface (Tx)</td> <td>5.7</td> <td>45</td> </tr> <tr> <td>Enclosure (near motor) (RX)</td> <td>11.6</td> <td>50</td> </tr> <tr> <td>Battery Surface(RX)</td> <td>32.4</td> <td>45</td> </tr> </tbody> </table> | <u>Location</u> | <u>Temperature Rise (K)</u> | <u>Limit (K)</u> | Battery Surface (Tx) | 5.7 | 45 | Enclosure (near motor) (RX) | 11.6 | 50 | Battery Surface(RX) | 32.4 | 45 |
| <u>Location</u> | <u>Temperature Rise (K)</u> | <u>Limit (K)</u> | | | | | | | | | | | |
| Battery Surface (Tx) | 5.7 | 45 | | | | | | | | | | | |
| Enclosure (near motor) (RX) | 11.6 | 50 | | | | | | | | | | | |
| Battery Surface(RX) | 32.4 | 45 | | | | | | | | | | | |
| 9.6 | <p>The maximum temperature rises at locked moving part were recorded as follows: Ambient Temperature (°C): 23.4</p> <table border="1"> <thead> <tr> <th><u>Location</u></th> <th><u>Temperature Rise (K)</u></th> <th><u>Limit (K)</u></th> </tr> </thead> <tbody> <tr> <td>Battery Surface(RX)</td> <td>3.1</td> <td>45</td> </tr> <tr> <td>Enclosure (near motor) (RX)</td> <td>0.4</td> <td>50</td> </tr> </tbody> </table> | <u>Location</u> | <u>Temperature Rise (K)</u> | <u>Limit (K)</u> | Battery Surface(RX) | 3.1 | 45 | Enclosure (near motor) (RX) | 0.4 | 50 | | | |
| <u>Location</u> | <u>Temperature Rise (K)</u> | <u>Limit (K)</u> | | | | | | | | | | | |
| Battery Surface(RX) | 3.1 | 45 | | | | | | | | | | | |
| Enclosure (near motor) (RX) | 0.4 | 50 | | | | | | | | | | | |

RESULTS:



END OF REPORT