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American National Standards Institute
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Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report Number: HKGH0209241001

Applicant: NEAT-OH! INTERNATIONAL, LLC
790 FRONTAGE ROAD SUITE 303
NORTHFIELD
IL 60093
USA
Attn: ALEX YIU / WAYNE ROTHSCHILD

Date: May 05, 2017

Submitted sample said to be	:	
Item Name	:	**(1) Zipes™ Speed Pipes - Performance Pack** **(2) Zipes™ Speed Pipes - Duel Barrel Racing Pack** **(3) Zipes™ Speed Pipes - Vehicle & Remote Accessory Set** **(4) Zipes™ Speed Pipes - Totally Tubular Expansion Pack**
Item No.	:	**(1) A2280XX** **(2) A2281XX** **(3) A2282XX** **(4) A2283XX**
Quantity	:	1 set
Labelled Age Group	:	"3+"
Packaging Provided	:	Yes
Manufacturer	:	Shen Zhen Wai Lee Fung Plastic Product Company Limited
Country of Origin	:	China

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For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President

Intertek Testing Services Hong Kong Ltd.
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2786 1903 Website: www.intertek.com

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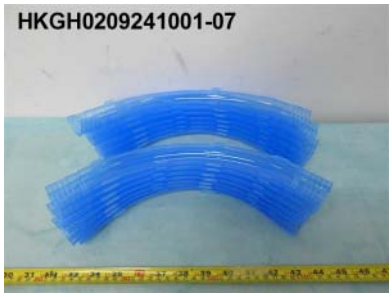

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Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

(1) The measured emission level of the apparatus did not exceed the accessible emission level of class 1 according to IEC60825-1: 1993+A1+A2 and the apparatus was classified as “Class 1 LED Product”.

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(1) Lasers and light-emitting diodes radiation

Test Standard : IEC 60825-1: 1993 + A1 + A2 Safety of laser products - Part 1: Equipment classification, requirements and user's guide

Clause	Title/Description	Result
1	Scope and object	—
2	Normative references	—
3	Definitions	—
4	Engineering specifications	Not Applicable
5	Labelling	Not Applicable
6	Other informational requirements	Not Applicable
7	Additional requirements for specific laser products	Not Applicable
8	Classification	Complied
9	Measurement for classification	Complied

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Table of measuring data

For IR LED used in the remote control unit (water clear)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard		
			Measuring Distance	Measured Power	Limit for Class 1
Normal (without cover)	933nm	2.55mrad	17.3mm	137.0μW	1.9mW
Fault (without cover)	933nm	2.55mrad	17.3mm	1.8mW	1.9mW

For Red LED used in the remote control unit (red diffused)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard		
			Measuring Distance	Measured Power	Limit for Class 1
Normal (without cover)	657nm	13.09mrad	36.8mm	1.9μW	3.2mW
Fault (without cover)	657nm	13.09mrad	36.8mm	2.1μW	3.2mW

For Red LED used in the USB dongle unit (water clear)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard		
			Measuring Distance	Measured Power	Limit for Class 1
Normal (without cover)	625nm	0.52mrad	14.0mm	19.6μW	390.0μW

For Red LED used in the ball unit (water clear)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard		
			Measuring Distance	Measured Power	Limit for Class 1
Normal (without cover)	634nm	1.46mrad	14.0mm	78.4μW	390.0μW
Fault (without cover)	634nm	1.46mrad	14.0mm	322.5μW	390.0μW

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For Blue LED used in the ball unit (water clear)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	456nm	3.32mrad	19.4mm	238.1mW	860.8µW	30.2mm	3.4mJ	5.1mJ
Fault (without cover)	456nm	3.32mrad	19.4mm	303.8µW	860.8µW	30.2mm	4.1mJ	5.1mJ

For White LED wavelength at first peak used in the vehicle unit (yellow diffused)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	456nm	2.06mrad	15.9mm	81.1µW	537.5µW	18.7mm	4.2mJ	5.1mJ
Fault (without cover)	456nm	2.06mrad	15.9mm	88.6µW	537.5µW	18.7mm	4.3mJ	5.1mJ

For White LED wavelength at second peak used in the vehicle unit (yellow diffused)

Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	524nm	2.06mrad	15.9mm	69.9µW	537.5µW	18.7mm	3.6mJ	117.8mJ
Fault (without cover)	524nm	2.06mrad	15.9mm	75.5µW	537.5µW	18.7mm	3.7mJ	117.8mJ

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Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered.
2. The apparatus was also complied with standard EN60825-1: 1994+A1+A2 due to similarity between these standard.
3. The requirement of EN 62115 (Annex E) and the French regulation published on 11th Mar 2008 for LED product were included in this test report.
4. The test was conducted by operating the remote control unit of apparatus at rated voltage 3.0VDC, the vehicle unit of apparatus at rated voltage 3.7VDC, the ball unit of apparatus at rated voltage 4.5VDC and the USB dongle unit of apparatus at rated voltage 5.0VDC.
5. 1 pc. 5mm round type water clear IR LED used in the remote control unit.
6. 1 pc. 3mm round type red diffused Red LED used in the remote control unit.
7. 1 pc. SMD water clear Red LED used in the USB dongle unit.
8. 1 pc. 3mm round type water clear Red LED used in the ball unit.
9. 1 pc. 3mm round type water clear Blue LED used in the ball unit.
10. 1 pc. SMD yellow diffused White LED used in the vehicle unit.
11. All LED specifications had not been provided for the checking.

Date sample received : Mar 06, 2017, Apr 24, 2017
Testing period : Mar 06, 2017 to Apr 26, 2017

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End of report

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