

## Test Report

No. SHATY2112914102

Date: 12 Jul 2021

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HAPE INTERNATIONAL (NINGBO) LTD HAPPY ARTS & CRAFTS (NINGBO) CO., LTD  
9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : LIGHT AND SOUND TUNNEL/ MIGHTY MOUNTAIN MINE/LARGE BOOM CRANE / PROPELLER ENGINE/ COGWHEEL TRAIN/ STEAM-ERA FREIGHT TRAIN/ DIESEL FREIGHT TRAIN/ STEAM-ERA PASSENGER TRAIN

SGS Job No. : SHHL2106030791TY - SH  
Country of Origin : CHINA  
Country of Destination : GLOBAL  
Style No. : E3739/ E3753/ E3715/ E3750/ E3751/ E3717/ E3718/ E3719  
Age Labelling : 3Y+/3Y+/3Y+/18M+/18M+/18M+/18M+/18M+  
Client Ref. Information : E3739A/ E3753A/ E3715A/ E3750A/ E3751A/ E3717A/ E3718A/ E3719A  
Date of Sample Received : 23 Jun 2021  
Testing Period : 23 Jun 2021 - 07 Jul 2021  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

### Result Summary :

Test Requested	Conclusion
Polycyclic aromatic hydrocarbons (PAHs)	See Results
Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	PASS

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Danna Ji

Danna Ji  
Approved Signatory

scan to see the report



SHATY2112914102



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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-129141.024	Grey ABS + Black PA + Black PE
SN2	SHA21-129141.025	Grey PP + Golden plating with black plastic + Silvery plating with black plastic
SN3	SHA21-129141.028	Dk.Grey ABS + Orange ABS body + Black PP wheel
SN4	SHA21-129141.029	Red PP + Black ABS + Black PE
SN5	SHA21-129141.030	Dk.Blue ABS + Dk.Brown ABS + Grey PP
SN6	SHA21-129141.031	Black HIPS + Grey rubber

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Polycyclic aromatic hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	024
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND



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Test Item(s)	Unit	MDL	024
Sum of 15 PAHs	mg/kg	-	ND

Test Item(s)	Unit	MDL	025
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	3.6
Sum of 15 PAHs	mg/kg	-	3.6

Test Item(s)	Unit	MDL	028
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND



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Test Item(s)	Unit	MDL	028
Sum of 15 PAHs	mg/kg	-	ND

Test Item(s)	Unit	MDL	029
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND
Sum of 15 PAHs	mg/kg	-	ND

Test Item(s)	Unit	MDL	030
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND



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Test Item(s)	Unit	MDL	030
Sum of 15 PAHs	mg/kg	-	ND

Test Item(s)	Unit	MDL	031
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND
Sum of 15 PAHs	mg/kg	-	ND



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### AfPS ( German commission for Product Safety ) : PAHs requirements

Parameter Unit : mg/kg	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
Sum of 15 PAHs	< 1	< 5	< 10	< 20	< 50

#### Note:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

**Remark:** The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

### Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit	MDL	024
Benzo(a)anthracene(BaA)	0.5	mg/kg	0.1	ND
Chrysene(CHR)	0.5	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.5	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.5	mg/kg	0.1	ND



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Test Item(s)	Limit	Unit	MDL	024
Benzo(b)fluoranthene(BbF)	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.5	mg/kg	0.1	ND
<b>Conclusion</b>				<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	025
Benzo(a)anthracene(BaA)	0.5	mg/kg	0.1	ND
Chrysene(CHR)	0.5	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.5	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.5	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.5	mg/kg	0.1	ND
<b>Conclusion</b>				<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	028
Benzo(a)anthracene(BaA)	0.5	mg/kg	0.1	ND
Chrysene(CHR)	0.5	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.5	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.5	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.5	mg/kg	0.1	ND
<b>Conclusion</b>				<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	029
Benzo(a)anthracene(BaA)	0.5	mg/kg	0.1	ND
Chrysene(CHR)	0.5	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.5	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.5	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.5	mg/kg	0.1	ND
<b>Conclusion</b>				<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	030
Benzo(a)anthracene(BaA)	0.5	mg/kg	0.1	ND
Chrysene(CHR)	0.5	mg/kg	0.1	ND



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Test Item(s)	Limit	Unit	MDL	030
Benzo(k)fluoranthene(BkF)	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.5	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.5	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.5	mg/kg	0.1	ND
<b>Conclusion</b>				<b>PASS</b>

Test Item(s)	Limit	Unit	MDL	031
Benzo(a)anthracene(BaA)	0.5	mg/kg	0.1	ND
Chrysene(CHR)	0.5	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.5	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.5	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.5	mg/kg	0.1	ND
<b>Conclusion</b>				<b>PASS</b>

Notes :

	Limit for General Product	Limit for Toys or Childcare Article
EU 8 PAHs	1.0mg/kg (each)	0.5mg/kg (each)

Remark: Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.



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Sample photo:



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