

TEST REPORT

Applicant: NEWTON (HK) LIMITED
FLAT 303-4 3/F YEE KUK INDL CTR
555 YEE KUK ST
CHEUNG SHA WAN
KLN HK

Number: HKGH0261020901

Date: Jul 08, 2020

Attn: ZOE HUI

Submitted sample said to be :
Item Name : **Medcross medical mask (3 layers)**
Quantity : 20 pcs
Country of Origin : HKSAR

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



Cindy I.K. Chan
Vice President



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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 :

<u>Requirement</u>	<u>Result</u>
(1) EN 71-3:2019 - Migration of certain elements	Pass
(2) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(3) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(4) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 51, amendment no. 552/2009 & 2018/2005 (Placed on the market after 7 July 2020) - Phthalate content	Pass
(5) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 63 & Commission regulation (EU) 2015/628 - Lead content requirement	Pass



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(1) 19 Toxic Element Migration Test

Test Method : EN 71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).

The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

Tested Components:

- (1) Pale blue non-woven fabric (mask).
- (2) White non-woven fabric (mask).
- (3) White elastic band (mask).

Date sample received : Jun 30, 2020 and Jul 07, 2020

Test Period : Jun 30, 2020 to Jul 08, 2020



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(2) Phthalate Content Test

Test Method : EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compound	Result (% w/w)	Limit (% w/w)
	(3/4)	
Dibutyl phthalate (DBP)	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	0.1

Three Phthalate content :

Compound	Result (% w/w)	Limit (% w/w)
	(1/2)	
Dibutyl phthalate (DBP)	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

Tested Components:

- (1) White elastic band (mask).
- (2) White plastic (twist tie) (internal).
- (3) Pale blue non-woven fabric (mask).
- (4) White non-woven fabric (mask).

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(3) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.01
(2)	ND	0.01

ND : Not detected (< 0.0005%)

Tested Components:

- (1) White elastic band (mask).
- (2) White plastic (twist tie) (internal).

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(4) Phthalate Content Test

Test Method : Solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)		Limit (% w/w)
	(1/2)	(3/4)	
Dibutyl phthalate (DBP)	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 & 2018/2005 with effective date after 7 July 2020 for articles placed on the market.

Tested Components:

- (1) White elastic band (mask).
- (2) White plastic (twist tie) (internal).
- (3) Pale blue non-woven fabric (mask).
- (4) White non-woven fabric (mask).

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(5) Lead (Pb) Content

Test Method : Lead content requirement in Commission regulation (EU) 2015/628 amending Annex XVII item 63 of the REACH regulation (EC) No. 1907/2006, acid digestion was used and total Lead content was determined by inductively coupled argon plasma spectrometry.

Lead Content:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.05
(2)	ND	0.05
(3)	ND	0.05

ND : Not detected (< 0.002%)

Tested Components:

- (1) Pale blue non-woven fabric (mask).
- (2) White non-woven fabric (mask).
- (3) White elastic band (mask).

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End of report

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