

# Test Report

Report No.: CTT2004032975EN

Date: Apr. 20, 2020

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Sample Received Date: Apr. 14, 2020

Completed Date: Apr. 20, 2020

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: HDPE Glove

Sample Color: Transparent

Exported to: European Union

Country of Origin: PRC

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of CTT



Frank / Lab manager

Consumer Testing Technology Co., Ltd.

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**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & COMMISSION REGULATION (EU) No 494/2011 - Total Cadmium (Cd)	PASS
2	Tested materials of submitted samples	Annex XVII items 51 of the REACH Regulation (EC) No 1907/2006 & amendment(EC) 2018/2005 - Phthalates	PASS
3	Tested materials of submitted samples	Phthalates content	DATA
4	Tested materials of submitted samples	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs) content	PASS
5	Tested materials of submitted samples	Annex XVII items 20 of the REACH Regulation (EC) No 1907/2006 & COMMISSION DECISION 2009/425/EC - Organic tin compounds	PASS
6	Tested materials of submitted samples	(EU) 2019/1021 of POPs - Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	PASS
7	Tested materials of submitted samples	COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal - Specific migration of Bisphenol A (BPA) - Total Phthalate content - Specific migration of Phthalate	PASS

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**Test Result(s):**

Total Cadmium (Cd)

Method:

Metal – With reference to CPSC-CH-E1001-08.3- Method No.1

Nonmetal – With reference to CPSC-CH-E1002-08.3- Method No.2

Surface coating – With reference to CPSC-CH-E1003-09.1- Method No.3, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (<RL).
  3. RL (Reporting Limit) = 2 mg/kg.

Phthalates

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substances	CAS No.	Report Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)
				1
Dibutyl phthalate(DBP)	84-74-2	50	--	N.D.
Butyl benzyl phthalate(BBP)	85-68-7	50	--	N.D.
Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	50	--	N.D.
Diisobutyl phthalate(DIBP)	84-69-5	50	--	N.D.
<b>SUM (DBP+BBP+DEHP+DIBP)</b>	--	--	1000	N.D.
<b>Conclusion</b>				PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.

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**Test Result(s):**

Phthalates

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substances	CAS No.	Report Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)
				1
Di-n-octyl phthalate(DNOP)	117-84-0	50	--	N.D.
Diisodecyl phthalate(DIDP)	26761-40-0 68515-49-1	100	--	N.D.
Diisononyl phthalate(DINP)	28553-12-0 68515-48-0	100	--	N.D.
<b>SUM (DNOP+DIDP+DINP)</b>	--	--	1000	N.D.

- Note:**
4. mg/kg = milligram per kilogram (ppm).
  5. N.D. = Not Detected (< RL).
  6. RL = Report Limit.

Polycyclic Aromatic Hydrocarbons (PAHs)

Method: AfPS GS 2014:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)
		I	II	III	1
Benzo[a]anthracene(BaA)	56-55-3	--	1	0.5	N.D.
Chrysene (CHR)	218-01-9	--	1	0.5	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	1	0.5	0.63
Benzo[k]fluoranthene(BkFA)	207-08-9	--	1	0.5	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	1	0.5	0.35
Dibenzo[a,h]anthracene(DBAhA)	53-70-3	--	1	0.5	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	1	0.5	N.D.
Benzo[j]fluoranthene(BjFA)	205-82-3	--	1	0.5	N.D.
<b>SUM</b>		10	--	--	0.98
<b>Conclusion</b>					<b>PASS</b>

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- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (<RL).
  3. RL (Reporting Limit) = 0.20 mg/kg.
  4. "--" = Not Regulated.
  5. Product Class:
    - I = Extender oils.
    - II = Rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
    - III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

## Organic tin compounds <sup>s</sup>

Method: With reference to acid digestion method or ISO 17353:2004, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) or Gas Chromatograph-Mass Spectrometry (GC-MS).

Compounds Name	RL <sup>#</sup> (mg/kg)	Limit <sup>#</sup> (mg/kg)	Result (mg/kg) <sup>#</sup>
			1
Tributyltin (TBT)	100	--	N.D.
Triphenyltin (TPhT)	100	--	N.D.
Tricyclohexyltin (TCyT)	100	--	N.D.
Trioctyltin (TOT)	100	--	N.D.
Tripropyltin (TPT)	100	--	N.D.
Trimethyltin (TMT)	100	--	N.D.
Sum of (TBT, TPhT, TCyT, TOT, TPT, TMT)	--	1000	N.D.
Dibutyltin (DBT)	100	1000	N.D.
Diocetyl tin (DOT)	100	1000	N.D.
<b>Conclusion</b>			<b>PASS</b>

- Note**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.
  4. "#" = This limit is by weight of tin.
  5. The organotin content were reported as total tin, whenever the result of total tin exceed 100mg/kg and organotin confirm action test were performed.

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**Test Result(s):**

Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) – POPs<sup>s</sup>

Method: With reference to ISO 18219:2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Limit (%)	Result (%)	Conclusion
1	0.15	N.D.	PASS

- Note:**
1. N.D. = Not Detected (< RL).
  2. RL (Reporting Limit) = 0.01%.

Overall migration

Method: With reference to BS EN1186-3:2002(Total immersion) & BS EN1186-14:2003(Substitute tests)

Material No.	Description	Location
1	Transparent plastic	Glove

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result(mg/dm <sup>2</sup> )	Conclusion
1	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	95% Ethanol(v/v), 60°C, 2 hours	10	<3	PASS
	Isooctane, 40°C, 0.5 hours	10	<3	PASS

- Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

Soluble heavy metal

Method: With reference to BS EN13130-1:2004,was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Transparent plastic	Glove

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02	
Material No.	Result (mg/kg)									Conclusion
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	

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- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. Test condition: 3% Acetic acid(w/v) at 70°C for 2 hours.

Specific migration of Bisphenol A (BPA) <sup>s</sup>

Method: With reference to CEN/TS 13130-13:2005, analyzed by Liquid Chromatography- Mass Spectrometry (LC-MS/MS).

Material No.	Description	Location
1	Transparent plastic	Glove

Material No.	Test Condition	Limit(mg/kg)	Result(mg/kg)	Conclusion
1	3% Acetic acid(w/v),70°C for 2 hours	0.05	N.D.	PASS

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. N.D. = Not Detected (< RL).
  3. RL (Reporting Limit) = 0.05 mg/kg.

Total Phthalate content

Method: Solvent extraction, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Description	Location
1	Transparent plastic	Glove

Material No.	Test Item	Limit(%)	Result(%)	Conclusion
1	Dibutyl Phthalate (DBP)	0.05	<0.005	PASS
	Benzyl butyl Phthalate (BBP)	0.1	<0.005	PASS
	Bis (2-ethylhexyl) Phthalate (DEHP)	0.1	<0.005	PASS
	Di-isononyl Phthalate (DINP)	0.1	<0.01	PASS
	Di-isodecyl Phthalate (DIDP)	0.1	<0.01	PASS

- Note:**
1. mg/kg = milligrams per kilogram(ppm).

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**Test Result(s):**

Specific migration of Phthalate <sup>s</sup>

Method: With reference to BS EN 13130-1:2004, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Description	Location
1	Transparent plastic	Glove

Material No.	Test Item	Limit(mg/kg)	Result(mg/kg)	Conclusion
1	Dibutyl Phthalate (DBP)	0.3	<0.2	PASS
	Benzyl butyl Phthalate (BBP)	30	<1	PASS
	Bis (2-ethylhexyl) Phthalate (DEHP)	1.5	<1	PASS
	Di-isononyl Phthalate (DINP)	9	<1	PASS
	Di-isodecyl Phthalate (DIDP)	9	<1	PASS
	Di-isononyl Phthalate (DINP)+ Di-isodecyl Phthalate (DIDP)	9	<2	PASS
	Phthalic acid, diallyl ester(DAP)	0.01	<0.01	PASS

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. Test Condition: 95% Ethanol(v/v), 70°C, 2 hours.

Specific migration of Phthalate <sup>s</sup>

Method: With reference to BS EN 13130-1:2004, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Test Item	Limit(mg/kg)	Result(mg/kg)	Conclusion
1	Dibutyl Phthalate (DBP)	0.3	<0.2	PASS
	Benzyl butyl Phthalate (BBP)	30	<1	PASS
	Bis (2-ethylhexyl) Phthalate (DEHP)	1.5	<1	PASS
	Di-isononyl Phthalate (DINP)	9	<1	PASS
	Di-isodecyl Phthalate (DIDP)	9	<1	PASS
	Di-isononyl Phthalate (DINP)+ Di-isodecyl Phthalate (DIDP)	9	<2	PASS
	Phthalic acid, diallyl ester(DAP)	0.01	<0.01	PASS

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  2. Test Condition: Isooctane, 40°C, 0.5 hour.

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**Test Material List:**

Material No.	Description	Location
1	Transparent plastic	Glove

**Photo of Sample:**

\*\*\*End of Report\*\*\*

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