

**TEST REPORT NO: B80511702****Jan.11,2018****UL ORDER NO: 12039199****Page :** 1 of 45**Applicant :** PACKIT, LLC
Address : 875 S. WESTLAKE BLVD., # 112, WESTLAKE VILLAGE, CA, 91361, USA**Test Date :** Nov.09,2017 - Jan.11,2018
Received Date: Nov 09, 2017**Contact Person :** DIANE KIM**Second Submission:** Dec.27, 2017**Sample Description:** Packit Freezable Bags EU**SKU Number:** /

Test Item	Test Result
Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]	PASS
Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [REACH Annex XVII Entry 46 & Client's Specification]	PASS
PAHs (Polycyclic Aromatic Hydrocarbons) Content [REACH Annex XVII Entry 50]	PASS
Organotin Compound ACCORDING TO REACH Annex XVII Entry 20	PASS
Short Chain Chlorinated Paraffin (SCCPs) [Regulation (EU) No 850/2004]	PASS
Detection of the Use of Banned Azo Colourants	PASS
Total Cadmium Content [REACH Annex XVII]	PASS
Total Lead Content [REACH Annex XVII (Metal Jewellery)]	PASS
Nickel Release for Coated Items [EN 12472:2005+A1:2009 & EN 1811:2011+A1:2015]	PASS
Total Mercury Content according to REACH ANNEX XVII NO.62	PASS
One Hundred Seventy-Four (174) Substances Of Very High Concern (SVHC) Screening Based On The SVHC Candidate List Published By European Chemicals Agency (ECHA), Regarding Regulation (EC) No 1907/2006 Concerning Reach & Client's Specification.	PASS
Overall Migration Test for Food Contact Plastics [EU No 10/2011 with Amendments]	PASS
Specific Migration of Heavy Metals for Food Contact Plastics [EU No 10/2011 with Amendments]	PASS
Sensory Examination Test for finished product [LFGB]	PASS
Remark: 1. The results relate only to the samples tested.	

For and on behalf of
UL VS Shanghai Limited

Sherry Xue - Technical Manager

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ADF-001 (2017-10-12)

**TEST REPORT NO : B80511702****Jan.11,2018****UL ORDER NO : 12039199****Page : 2 of 45****Sample Information :**

Sample	Product	Applicant's equivalent code / Color
001	BLACK PLASTIC - BUCKLE	
002	BLACK PLASTIC - PARTING SLIP	
003	BLACK SOFT PLASTIC - HANDLE	
004	BRIGHT BLACK PLASTIC - ZIPPER TEETH	
005	BLACK PLASTIC - ZIPPER TEETH	
006	BRIGHT GREY PLASTIC - ZIPPER TEETH	
007	BRIGHT DEEP GREY PLASTIC - ZIPPER TEETH	
008	GREY PLASTIC - ZIPPER TEETH	
009	DARK GREY PLASTIC - ZIPPER TEETH	
010	PINK PLASTIC - VELCRO	
011	BLACK PLASTIC - VELCRO	
012	DARK GREY PLASTIC - VELCRO	
013	BLACK FABRIC ZIPPER TAPE - THIN	
014	BLACK FABRIC ZIPPER TAPE - THICK	
015	GREY FABRIC ZIPPER TAPE	
016	DEEP GREY FABRIC ZIPPER TAPE	
017	LIGHT GREY FABRIC ZIPPER TAPE	
018	DARK GREY FABRIC ZIPPER TAPE	
019	PINK FABRIC - VELCRO	
020	BLACK FABRIC - VELCRO	
021	DARK GREY FABRIC - VELCRO	
022	BLACK ROPE	
023	GREY ROPE	
024	BLACK FABRIC TAPE - LARGE	
025	BLACK FABRIC TAPE - MIDDLE	
026	BLACK FABRIC TAPE - SMALL	
027	GREY FABRIC TAPE - LARGE	
028	GREY FABRIC TAPE - MIDDLE	
029	GREY FABRIC TAPE - SMALL	
030	DEEP GREY FABRIC TAPE	
031	DARK GREY FABRIC TAPE - LARGE	
032	DARK GREY FABRIC TAPE - MIDDLE	

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033	DARK GREY FABRIC TAPE - SMALL	
034	PINK FABRIC TAPE	
035	BLACK FABRIC	
036	PINK FABRIC	
037	DARK BLUE FABRIC	
038	ROYAL BLUE FABRIC	
039	DARK GREY FABRIC	
040	LIGHT GREEN /CYAN/GREY STRIPE FABRIC	
041	WHITE FABRIC WITH MULTICOLOR SMALL TRIANGLE PATTERN	
042	BLACK/WHITE STRIPE FABRIC	
043	MULTICOLOR LARGE TRIANGLE PATTERN FABRIC	
044	BLUE FABRIC WITH MULTICOLOR DOT	
045	DEEP BLUE FABRIC WITH WHITE/BLACK/GREY STRIPE	
046	BLACK/BLUE PLAID FABRIC	
047	LIGHT GREEN FABRIC WITH MULTICOLOR DOT AND CHERRIES	
048	MULTICOLOR STRIPE FABRIC	
049	MULTICOLOR LINE PATTERN FABRIC	
050	WHITE INNER PLASTIC LINING	
051	BLACK METAL - ZIPPER PULLER - LARGE	
052	BLACK METAL - ZIPPER SLIDER - LARGE	
053	BLACK METAL - ZIPPER PULLER - SMALL	
054	BLACK METAL - ZIPPER SLIDER - SMALL	
055	BLACK/WHITE FABRIC - LABELING	
056	WHITE FABRIC WITH BLACK PRINT - LABELING	
057	BROWN PAPER BOARD WITH MULTICOLOR PRINT - PACKAGE	
058	MULTICOLOR STICKER - PACKAGE	
059	WHITE PAPER CARD WITH MULTICOLOR PRINT - PACKAGE	
060	BROWN CORRUGATED PAPER WITH MULTICOLOR PRINT - TRAY - PACKAGE	
061	PACKIT FREEZABLE BAGS EU	

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1. Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]

Wet digestion method was used and total Heavy Metals (Lead/Cadmium/Chromium VI/Mercury) content were determined by ICP-OES or AAS.

Sample	TOTAL CADMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	TOTAL MERCURY	Pb + Cd + Hg + Cr(VI)	
057	<2.0	<2.0	9.9	<2.0	<11.0	PASS
058	<2.0	<2.0	<5.0	<2.0	<11.0	PASS
059	<2.0	<2.0	<5.0	<2.0	<11.0	PASS
060	<2.0	<2.0	7.4	<2.0	<11.0	PASS
					Requirement (mg/kg)	Max. 100
- All concentrations expressed in milligrams per kilogram						
- "<" means less than						

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2. **Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [REACH Annex XVII Entry 46 & Client's Specification]**

Extraction With Solvent, Quantification By LC-MS-MS (Method Detection Limit: 10 mg/kg)

<u>Sample</u>	<u>Result (mg/kg)</u>		<u>Total Result</u> <u>(NP +NPEOs)</u> <u>(mg/kg)</u>	<u>Client</u> <u>Requirement</u> <u>(mg/kg)</u>	
013+014+015	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
016+017+018	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
019+020+021	NP	<10.0	26.0	Max. 1000	PASS
	NPEO	26.0			
022+023	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
024+025+026	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
027+028+029	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
030+031+032	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
033+034+035	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			

*Requirement is not applicable for composite samples

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Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEOs) [REACH Annex XVII Entry 46 & Client's Specification]

Extraction With Solvent, Quantification By LC-MS-MS (Method Detection Limit: 10 mg/kg)

<u>Sample</u>	<u>Result (mg/kg)</u>		<u>Total Result</u> <u>(NP +NPEOs)</u> <u>(mg/kg)</u>	<u>Client</u> <u>Requirement</u> <u>(mg/kg)</u>	
036+037+038	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
039+040+041	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
042+043+044	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
045+046+047	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
048+049	NP	<10.0	<10.0	Max. 1000	PASS
	NPEO	<10.0			
*Requirement is not applicable for composite samples					

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3. PAHs (Polycyclic Aromatic Hydrocarbons) Content [REACH Annex XVII Entry 50]

AfPS GS 2014:01 PAK (Detection Limit: 0.1 mg/kg)

<u>Compounds</u>	<u>Result in mg/kg</u>		<u>Limit In mg/kg (Max.)</u>	
	Sample 001+002+003	Sample 004+005+006		
Benzo (a) anthracene	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Chrysene	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected		
Benzo (k) fluoranthene	Not Detected	Not Detected		
Benzo (a) pyrene	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected		

<u>Compounds</u>	<u>Result in mg/kg</u>		<u>Limit In mg/kg (Max.)</u>	
	Sample 007+008+009	Sample 010+011+012		
Benzo (a) anthracene	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Chrysene	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected		
Benzo (k) fluoranthene	Not Detected	Not Detected		
Benzo (a) pyrene	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected		

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PAHs (Polycyclic Aromatic Hydrocarbons) Content [REACH Annex XVII Entry 50]

AfPS GS 2014:01 PAK (Detection Limit: 0.1 mg/kg)

<u>Compounds</u>	<u>Result in mg/kg</u>		<u>Limit In mg/kg (Max.)</u>	
	Sample 050	Sample 056		
Benzo (a) anthracene	Not Detected	Not Detected	Each <1.0mg/kg	PASS
Chrysene	Not Detected	Not Detected		
Benzo (b) fluoranthene	Not Detected	Not Detected		
Benzo (j) fluoranthene	Not Detected	Not Detected		
Benzo (k) fluoranthene	Not Detected	Not Detected		
Benzo (a) pyrene	Not Detected	Not Detected		
Benzo (e) pyrene	Not Detected	Not Detected		
Dibenzo (a,h) anthracene	Not Detected	Not Detected		

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4. Organotin Compound According To Reach Annex XVII Entry 20
With Reference To ISO 17353: 2004. (Detection Limit= 0.01%)

Organotin Compounds	Sample 001+002+003 (express as Tin)	Sample 004+005+006 (express as Tin)	Sample 007+008+009 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyl tin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

Organotin Compounds	Sample 010+011+012 (express as Tin)	Sample 013+014+015 (express as Tin)	Sample 016+017+018 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyl tin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

Organotin Compounds	Sample 019+020+021 (express as Tin)	Sample 022+023 (express as Tin)	Sample 024+025+026 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyl tin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

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Organotin Compound According To Reach Annex XVII Entry 20
With Reference To ISO 17353: 2004. (Detection Limit= 0.01%)

Organotin Compounds	Sample 027+028+029 (express as Tin)	Sample 030+031+032 (express as Tin)	Sample 033+034+035 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyl tin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

Organotin Compounds	Sample 036+037+038 (express as Tin)	Sample 039+040+041 (express as Tin)	Sample 042+043+044 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyl tin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

Organotin Compounds	Sample 045+046+047 (express as Tin)	Sample 048+049 (express as Tin)	Sample 050 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	ND	< 0.1% Tin(Sn)
Diocetyl tin (DOT)	ND	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	ND	< 0.1% Tin(Sn)

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Organotin Compound According To Reach Annex XVII Entry 20
With Reference To ISO 17353: 2004. (Detection Limit= 0.01%)

Organotin Compounds	Sample 055 (express as Tin)	Sample 056 (express as Tin)	Client's Requirement (express as Tin)
Dibutyltin (DBT)	ND	ND	< 0.1% Tin(Sn)
Dioctyltin (DOT)	ND	ND	< 0.1% Tin(Sn)
Tri-substituted organostannic compounds(such as TBT,TPHT)	ND	ND	< 0.1% Tin(Sn)

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5. Short Chain Chlorinated Paraffin (SCCPs) [Regulation (EU) No 850/2004]

Extraction With Organic Solvent. Quantification with GC-ECD and confirmation by UPLC-MSMS

(Method detected limit: 100mg/kg)

Sample	Result(mg/kg)	Client Requirement(mg/kg)	Conclusion
001+002+003	<100	Max. 1000	PASS
004+005+006	<100	Max. 1000	PASS
007+008+009	<100	Max. 1000	PASS
010+011+012	<100	Max. 1000	PASS
013+014+015	<100	Max. 1000	PASS
016+017+018	<100	Max. 1000	PASS
019+020+021	<100	Max. 1000	PASS
022+023	<100	Max. 1000	PASS
024+025+026	<100	Max. 1000	PASS
027+028+029	<100	Max. 1000	PASS
030+031+032	<100	Max. 1000	PASS
033+034+035	<100	Max. 1000	PASS
036+037+038	<100	Max. 1000	PASS
039+040+041	<100	Max. 1000	PASS
042+043+044	<100	Max. 1000	PASS
045+046+047	<100	Max. 1000	PASS
048+049	<100	Max. 1000	PASS
050	<100	Max. 1000	PASS
055	<100	Max. 1000	PASS
056	<100	Max. 1000	PASS

"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram

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6. Detection of the Use of Banned Azo Colourants

Banned azo colourants per German and European Law (Regulation (EC) No. 1907/2006 on REACH Annex XVII item no. 43 and appendix 8 as amended by commission regulation (EC) no. 552/2009) are such colourants that may form one of the following amines by splitting up one or more azo groups.

Test method according to the official test procedures EN 14362-1:2017 for textile, EN ISO 17234-1:2015 for leather materials. The presence of 4-aminoazobenzene is determined by EN 14362-3:2017 for textile, EN ISO 17234-2:2011 for leather materials. Removal of fat by n-hexane (in case of leather), treatment with citric buffer, reductive cleavage with sodium dithionite, extraction with ether, detection by GC/MS and/or HPLC/DAD. (Detection limit : 5 mg/kg)

BENZIDINE (CAS No. 92-87-5)	3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No. 838-88-0)
4-AMINODIPHENYL (CAS No. 92-67-1)	P-CRESIDINE (CAS No. 120-71-8)
4-CHLORO-O-TOLUIDINE (CAS No. 95-69-2)	4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No. 101-14-4)
2-NAPHTHYLAMINE (CAS No. 91-59-8)	4,4'-OXYDIANILINE (CAS No. 101-80-4)
O-AMINOAZOTOLUENE (CAS No. 97-56-3)	4,4'-THIODIANILINE (CAS No. 139-65-1)
2-AMINO-4-NITROTOLUENE (CAS No. 99-55-8)	O-TOLUIDINE (CAS No. 95-53-4)
P-CHLOROANILINE (CAS No. 106-47-8)	2,4,5-TRIMETHYLANILINE (CAS No. 137-17-7)
2,4'-DIAMINOANISOLE (CAS No. 615-05-4)	2,4-TOLUYLENEDIAMINE (CAS No. 95-80-7)
4,4'-DIAMINODIPHENYLMETHANE (CAS No. 101-77-9)	O-ANISIDINE (CAS No. 90-04-0)
3,3'-DICHLOOROBENZIDINE (CAS No. 91-94-1)	4-AMINOAZOBENZENE (CAS No. 60-09-3)
3,3'-DIMETHOXYBENZIDINE (CAS No. 119-90-4)	3,3'-DIMETHYLBENZIDINE (CAS No. 119-93-7)

Sample	Test Method	Result (Amine Detected)	Comments
013+014+015	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
013+014+015	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
016+017+018	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
016+017+018	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
019+020+021	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
019+020+021	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
022+023	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
022+023	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
024+025+026	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
024+025+026	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
027+028+029	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS

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027+028+029	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
030+031+032	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
030+031+032	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
033+034+035	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
033+034+035	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
036+037+038	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
036+037+038	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
039+040+041	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
039+040+041	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
042+043+044	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
042+043+044	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
045+046+047	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
045+046+047	EN 14362-1:2017 (With Extraction)	Not Detected	PASS
048+049	EN 14362-1:2017 (Without Extraction)	Not Detected	PASS
048+049	EN 14362-1:2017 (With Extraction)	Not Detected	PASS

Note: Limit = 30 mg/kg (Not Applicable for combine test)

Test Conclusions:

(1) The submitted samples (013+014+015) , (016+017+018) , (019+020+021) , (022+023) , (024+025+026) , (027+028+029) , (030+031+032) , (033+034+035) , (036+037+038) , (039+040+041) , (042+043+044) , (045+046+047) and (048+049) did not contain the 22 forbidden amines according to Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 43 and Appendix 8 as amended by Commission Regulation (EC) No. 522/2009 and Commission Regulation (EU) No.126/2013.

Interpretation of test results:

1. In the case of levels per amine component \leq 30 mg/kg: not detected. According to the analysis as carried out, azo colourants banned under the Ordinance on Commodities were not detected in the articles submitted.
2. In the case of levels per amine component $>$ 30 mg/kg. The analysis result suggests that the article submitted has been manufactured or treated by using azo colourants banned under the Ordinance on Commodities.
3. In case of a result between 25 and 35 mg/kg. We remark that due to the error range of the method, these measurement values represent a border line case.

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7. Total Cadmium Content [REACH Annex XVII]

With reference to EN 1122:2001 (Method B)/ Wet digestion method was used and total Cadmium content was determined by ICP-OES or AAS.

Detection Limit : 7.5mg/kg

Sample	Result(mg/kg)	Requirement(mg/kg)	
001+002+003	<7.5	Max.100	PASS
004+005+006	<7.5	Max.100	PASS
007+008+009	<7.5	Max.100	PASS
010+011+012	<7.5	Max.100	PASS
050	<7.5	Max.100	PASS
051	<7.5	Max.100	PASS
052	<7.5	Max.100	PASS
053	<7.5	Max.100	PASS
054	<7.5	Max.100	PASS
056	<7.5	Max.100	PASS
< means less than ; > means greater than ; mg/kg means milligrams per kilogram			

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8. Total Lead Content [REACH Annex XVII (Metal Jewellery)]

Test Method : CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

Detection Limit : 20mg/kg

Sample	Result(mg/kg)	Client Requirement(mg/kg)	
001+002+003	<20.0	Max.100	PASS
004+005+006	<20.0	Max.100	PASS
007+008+009	<20.0	Max.100	PASS
010+011+012	<20.0	Max.100	PASS
050	<20.0	Max.100	PASS
051	22.7	Max.100	PASS
052	20.8	Max.100	PASS
053	<20.0	Max.100	PASS
054	20.9	Max.100	PASS
056	<20.0	Max.100	PASS

"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram

9. Nickel Release for Coated Items [EN 12472:2005+A1:2009 & EN 1811:2011+A1:2015]

Detection Limit : 0.04µg/cm²/week

Sample	Vol. of Test Solution used (ml)	Tested Sample Area (cm ²)	Nickel Release (µg/cm ² /week)			Requirement (µg/cm ² /week)	
			Trial 1	Trial 2	Trial 3		
051	16.2	16.20	<0.04	<0.04	<0.04	<0.50	PASS
052	16.7	16.70	<0.04	<0.04	<0.04	<0.50	PASS
053	14.0	14.00	<0.04	<0.04	<0.04	<0.50	PASS
054	14.0	14.00	<0.04	<0.04	<0.04	<0.50	PASS

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10. Total Mercury Content according to REACH ANNEX XVII NO.62

Wet digestion method was used and total Mercury content was determined by ICP-OES.

Detection Limit : 10 mg/kg

Sample	Result(mg/kg)	Requirement(mg/kg)	
001+002+003	<10.0	Max. 100	PASS
004+005+006	<10.0	Max. 100	PASS
007+008+009	<10.0	Max. 100	PASS
010+011+012	<10.0	Max. 100	PASS
050	<10.0	Max. 100	PASS
< means less than ; > means greater than ; mg/kg means milligrams per kilogram			

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11. One Hundred Seventy-Four (174) Substances Of Very High Concern (SVHC) Screening Based On The SVHC Candidate List Published By European Chemicals Agency (ECHA), Regarding Regulation (EC) No 1907/2006 Concerning Reach & Client's Specification.

In-House Method Acid Digestion And Analyzed By ICP-AES And Solvent Extraction And Analyzed By GC/MS,GC/ECD And LC-MS-MS.

Sample 061					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
1	4,4'-Diaminodiphenylmethane	101-77-9	ND	0.01	Carcinogen category 2
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	ND	0.01	vPvB
3	Alkanes, C10-13 chloro (short chain chlorinated paraffins, SCCP)	85535-84-8	ND	0.01	PBT
4	Anthracene	120-12-7	ND	0.01	PBT
5	Diarsenic pentaoxide* ¹	1303-28-2	ND	0.01	Carcinogen category 1
6	Diarsenic trioxide* ¹	1327-53-3	ND	0.01	Carcinogen category 1
7	Bis(2-ethylhexyl)phthalate(DEHP)	117-81-7	ND	0.01	Toxic to reproduction category 2
8	Bis(tributyltin)oxide (TBTO)* ³	56-35-9	ND	0.01	PBT
9	Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	Toxic to reproduction category 2
10	Cobalt dichloride* ¹	7646-79-9	ND	0.01	Carcinogenic and toxic for reproduction
11	Dibutyl phthalate (DBP)	84-74-2	ND	0.01	Toxic to reproduction category 2
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD)	25637-99-4; 3194-556 (134237-51-7 134237-50-6, 134237-52-8)	ND	0.01	PBT
13	Lead hydrogen arsenate* ¹	7784-40-9	ND	0.01	Carcinogen category 1;toxic to reproduction category 1
14	Sodium dichromate* ¹	7789-12-0 10588-01-9	ND	0.01	Carcinogen category 2;mutagen category

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
					2;toxic to reproduction category 2
15	Triethyl arsenate* ¹	15606-95-8	ND	0.01	Carcinogen category 1
16	Anthracene oil* ²	90640-80-5	ND	0.01	PBT, vPvB, Carcinogen category 2
17	Anthracene oil, anthracene paste,distn. Lights* ²	91995-17-4	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
18	Anthracene oil, anthracene paste, anthracene fraction* ²	91995-15-2	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
19	Anthracene oil, anthracene-low* ²	90640-82-7	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
20	Anthracene oil, anthracene paste* ²	90640-81-6	ND	0.01	PBT, vPvB, Carcinogen category 2, mutagen category 2
21	Pitch, coal tar, high temp.* ²	65996-93-2	ND	0.01	PBT, vPvB, Carcinogen category 2
22	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	ND	0.01	Toxic to reproduction category 2
23	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	ND	0.01	Carcinogen category 2
24	Diisobutyl phthalate (DIBP)	84-69-5	ND	0.01	Toxic to reproduction category 2
25	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)* ¹	12656-85-8	ND	0.01	Carcinogen category 2; toxic to reproduction category 1
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)* ¹	1344-37-2	ND	0.01	Carcinogen category 2; toxic to reproduction category 1
27	Lead chromate* ¹	7758-97-6	ND	0.01	Carcinogen category 2; toxic to reproduction category 1
28	Acrylamide	79-06-1	ND	0.01	Carcinogen category 2, mutagen category 2

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
29	Trichloroethylene	79-01-6	ND	0.01	Carcinogen category 2
30	Boric acid* ¹	10043-35-3 11113-50-1	ND	0.01	Toxic to reproduction category 2
31	Disodium tetraborate, anhydrous* ¹	1303-96-4 1330-43-4 12179-04-3	ND	0.01	Toxic to reproduction category 2
32	Tetraboron disodium heptaoxide, hydrate* ¹	12267-73-1	ND	0.01	Toxic to reproduction category 2
33	Sodium chromate* ¹	7775-11-3	ND	0.01	Carcinogen category 2, Mutagen category 2, Toxic to reproduction category 2
34	Potassium chromate* ¹	7789-00-6	ND	0.01	Carcinogen category 2, Mutagen category 2
35	Ammonium dichromate* ¹	7789-09-5	ND	0.01	Carcinogen category 2, Mutagen category 2, Toxic to reproduction category 2
36	Potassium dichromate* ¹	7778-50-9	ND	0.01	Carcinogen category 2, Mutagen category 2, Toxic to reproduction category 2
37	Cobalt(II) sulphate* ¹	10124-43-3	ND	0.01	Carcinogenic, and toxic to reproduction
38	Cobalt(II) dinitrate* ¹	10141-05-6	ND	0.01	Carcinogenic, and toxic to reproduction
39	Cobalt (II) carbonate* ¹	513-79-1	ND	0.01	Carcinogenic, and toxic to reproduction
40	Cobalt(II) diacetate* ¹	71-48-7	ND	0.01	Carcinogenic, and toxic to reproduction
41	2-Methoxyethanol	109-86-4	ND	0.01	Toxic to reproduction
42	2-Ethoxyethanol	110-80-5	ND	0.01	Toxic to reproduction
43	Chromium trioxide* ¹	1333-82-0	ND	0.01	Carcinogenic and mutagenic
44	Acids generated from chromium	7738-94-5	ND	0.01	Carcinogenic

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	trioxide and their oligomers * ¹ Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	-- 13530-68-2			
45	2-ethoxyethyl acetate	111-15-9	ND	0.01	Toxic for reproduction
46	Strontium chromate* ¹	7789-06-2	ND	0.01	Carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	0.01	Toxic for reproduction
48	Hydrazine	302-01-2 7803-57-8	ND	0.01	Carcinogenic
49	1-methyl-2-pyrrolidone	872-50-4	ND	0.01	Toxic for reproduction
50	1,2,3-trichloropropane	96-18-4	ND	0.01	Carcinogenic and toxic for reproduction
51	1,2-Benzenedicarboxylic acid, di-C6- 8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	0.01	Toxic for reproduction
52	Dichromium tris(chromate) * ¹	24613-89-6	ND	0.01	Carcinogenic
53	Potassium hydroxyoctaoxodizincatedi – chromate* ¹	11103-86-9	ND	0.01	Carcinogenic
54	Pentazinc chromate octahydroxide* ¹	49663-84-5	ND	0.01	Carcinogenic
55	Aluminosilicate Refractory Ceramic Fibres (RCF) * ¹	-	ND	0.01	Carcinogenic
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (ZR-RCF) * ¹	-	ND	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND	0.01	Carcinogenic
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	0.01	Toxic for reproduction
59	2-Methoxyaniline;o-Anisidine	90-04-0	ND	0.01	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND	0.01	Equivalent level of concern having probable serious effects to the environment
61	1,2-Dichloroethane	107-06-2	ND	0.01	Carcinogenic

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
62	Bis(2-methoxyethyl) ether	111-96-6	ND	0.01	Toxic for reproduction
63	Arsenic acid* ¹	7778-39-4	ND	0.01	Carcinogenic
64	Calcium arsenate* ¹	7778-44-1	ND	0.01	Carcinogenic
65	Trilead diarsenate* ¹	3687-31-8	ND	0.01	Carcinogenic and toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	ND	0.01	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND	0.01	Carcinogenic
68	Phenolphthalein	77-09-8	ND	0.01	Carcinogenic
69	Lead azide Lead diazide* ¹	13424-46-9	ND	0.01	Toxic for reproduction
70	Lead styphnate* ¹	15245-44-0	ND	0.01	Toxic for reproduction
71	Lead dipicrate* ¹	6477-64-1	ND	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND	0.01	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND	0.01	Toxic for reproduction
74	Diboron trioxide* ¹	1303-86-2	ND	0.01	Toxic for reproduction
75	Formamide	75-12-7	ND	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)* ¹	17570-76-2	ND	0.01	Toxic for reproduction
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	ND	0.01	Mutagenic
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	ND	0.01	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND	0.01	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND	0.01	Carcinogenic
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5)]	2580-56-5	ND	0.01	Carcinogenic

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Sample 061					
No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	or Michler's base (EC No. 202-959-2)]				
82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND	0.01	Carcinogenic
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND	0.01	Carcinogenic
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND	0.01	Carcinogenic
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND	0.01	PBT;vPvB
86	Pentacosafuorotridecanoic acid	72629-94-8	ND	0.01	vPvB
87	Tricosafuorododecanoic acid	307-55-1	ND	0.01	vPvB
88	Henicosafuoroundecanoic acid	2058-94-8	ND	0.01	vPvB
89	Heptacosafuorotetradecanoic acid	376-06-7	ND	0.01	vPvB
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND	0.01	Equivalent level of concern having probable serious effects to human health
91	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	ND	0.01	Equivalent level of concern having probable serious effects to human health

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**TEST REPORT NO : B80511702****Jan.11,2018****UL ORDER NO : 12039199****Page : 24 of 45****Sample 061**

No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
92	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	ND	0.01	Equivalent level of concern having probable serious effects to human health
93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	ND	0.01	Equivalent level of concern having probable serious effects to the environment
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	ND	0.01	Equivalent level of concern having probable serious effects to the environment
95	Methoxyacetic acid	625-45-6	ND	0.01	Toxic for reproduction
96	N,N-dimethylformamide	68-12-2	ND	0.01	Toxic for reproduction
97	Dibutyltin dichloride (DBT)* ⁴	683-18-1	ND	0.01	Toxic for reproduction
98	Lead monoxide (Lead oxide) * ¹	1317-36-8	ND	0.01	Toxic for reproduction
99	Orange lead (Lead tetroxide) * ¹	1314-41-6	ND	0.01	Toxic for reproduction
100	Lead bis(tetrafluoroborate) * ¹	13814-96-5	ND	0.01	Toxic for reproduction
101	Trilead bis(carbonate)dihydroxide* ¹	1319-46-6	ND	0.01	Toxic for reproduction
102	Lead titanium trioxide* ¹	12060-00-3	ND	0.01	Toxic for reproduction
103	Lead titanium zirconium oxide* ¹	12626-81-2	ND	0.01	Toxic for reproduction
104	Silicic acid, lead salt* ¹	11120-22-2	ND	0.01	Toxic for reproduction
105	Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped * ¹	68784-75-8	ND	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]				
106	1-bromopropane (n-propyl bromide)	106-94-5	ND	0.01	Toxic for reproduction
107	Methyloxirane (Propylene oxide)	75-56-9	ND	0.01	Carcinogenic; mutagenic
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND	0.01	Toxic for reproduction
109	Diisopentylphthalate (DIPP)	605-50-5	ND	0.01	Toxic for reproduction
110	N-pentyl-isopentylphthalate	776297-69-9	ND	0.01	
111	1,2-diethoxyethane	629-14-1	ND	0.01	
112	Acetic acid, lead salt, basic* ¹	51404-69-4	ND	0.01	
113	Lead oxide sulfate* ¹	12036-76-9	ND	0.01	Toxic for reproduction
114	[Phthalato(2-)]dioxotrilead* ¹	69011-06-9	ND	0.01	Toxic for reproduction
115	Dioxobis(tearate)trilead* ¹	12578-12-0	ND	0.01	Toxic for reproduction
116	Fatty acids, C16-18, lead salts* ¹	91031-62-8	ND	0.01	Toxic for reproduction
117	Lead cyanamide* ¹	20837-86-9	ND	0.01	Toxic for reproduction
118	Lead dinitrate* ¹	10099-74-8	ND	0.01	Toxic for reproduction
119	Pentalead tetraoxide sulphate* ¹	12065-90-6	ND	0.01	Toxic for reproduction
120	Pyrochlore, antimony lead yellow* ¹	8012-00-8	ND	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
121	Sulfurous acid, lead salt, dibasic* ¹	62229-08-7	ND	0.01	Toxic for reproduction
122	Tetraethyllead* ¹	78-00-2	ND	0.01	Toxic for reproduction
123	Tetralead trioxide sulphate* ¹	12202-17-4	ND	0.01	Toxic for reproduction
124	Trilead dioxide phosphonate* ¹	12141-20-7	ND	0.01	Toxic for reproduction
125	Furan	110-00-9	ND	0.01	Carcinogenic
126	Diethyl sulphate	64-67-5	ND	0.01	Carcinogenic; mutagenic
127	Dimethyl sulphate	77-78-1	ND	0.01	Carcinogenic
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND	0.01	Toxic for reproduction
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND	0.01	Toxic for reproduction
130	4,4'-methylenedi-o-toluidine	838-88-0	ND	0.01	Carcinogenic
131	4,4'-oxydianiline and its salts	101-80-4	ND	0.01	Carcinogenic; mutagenic
132	4-aminoazobenzene	60-09-3	ND	0.01	Carcinogenic
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND	0.01	Carcinogenic
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND	0.01	Carcinogenic
135	Biphenyl-4-ylamine	92-67-1	ND	0.01	Carcinogenic
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)	97-56-3	ND	0.01	Carcinogenic
137	o-toluidine	95-53-4	ND	0.01	Carcinogenic
138	N-methylacetamide	79-16-3	ND	0.01	Toxic for reproduction
139	Cadmium* ¹	7440-43-9	ND	0.01	Carcinogenic

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
140	Cadmium oxide* ¹	1306-19-0	ND	0.01	Carcinogenic ; Equivalent level of concern having probable serious effects to human health
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	0.01	Toxic for reproduction
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND	0.01	Toxic for reproduction
143	Dipentyl phthalate (DPP)	131-18-0	ND	0.01	Toxic for reproduction
144	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	ND	0.01	Equivalent level of concern having probable serious effects to the environment
145	Cadmium sulphide* ¹	1306-23-6	ND	0.01	Carcinogenic; equivalent level of concern having probable serious effects to human health
146	Dihexyl phthalate(DnHP)	84-75-3	ND	0.01	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND	0.01	Carcinogenic
148	Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND	0.01	Carcinogenic
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	ND	0.01	Toxic for reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
150	Lead di(acetate) * ¹	301-04-2	ND	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	ND	0.01	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear* ⁷	68515-50-4	ND	0.01	Toxic for reproduction
153	Cadmium chloride* ¹	10108-64-2	ND	0.01	Carcinogenic; mutagenic; Toxic for reproduction; equivalent level of concern having probable serious effects to human health
154	Sodium perborate; perboric acid, sodium salt* ¹	-	ND	0.01	Toxic for reproduction
155	Sodium peroxometaborate* ¹	7632-04-4	ND	0.01	Toxic for reproduction
156	Cadmium fluoride* ¹	7790-79-6	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
157	Cadmium sulphate* ¹	10124-36-4; 31119-53-6	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND	0.01	PBT; vPvB
159	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)* ⁵	15571-58-1	ND	0.01	Toxic for Reproduction
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND	0.01	PBT; vPvB
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-	-	ND	0.01	Toxic for Reproduction

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE* ⁵ and MOTE* ⁶)				
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	0.01	Toxic for Reproduction
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	ND	0.01	vPvB
164	Nitrobenzene	98-95-3	ND	0.01	Toxic for reproduction
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	0.01	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND	0.01	vPvB
167	1,3-propanesultone	1120-71-4	ND	0.01	Carcinogenic
168	Perfluorononan-1-ic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	ND	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	ND	0.01	Carcinogenic Mutagenic Toxic for reproduction PBT vPvB
170	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	ND	0.01	Toxic for reproduction Endocrine disrupting properties
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	ND	0.01	Toxic for reproduction PBT

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No.	Substance Name	Cas Number	Concentration (%)	Reporting Limit (%)	Classification
	Decanoic acid, nonadecafluoro-, sodium salt CAS no.: 3830-45-3				
	Ammonium nonadecafluorodecanoate CAS no.: 3108-42-7	-	ND	0.01	
	Nonadecafluorodecanoic acid CAS no.: 335-76-2	-	ND	0.01	
172	p-(1,1-dimethylpropyl)phenol	80-46-6	ND	0.01	Equivalent level of concern having probable serious effects to environment
173	4-heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	ND	0.01	Equivalent level of concern having probable serious effects to environment
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	ND	0.01	vPvB

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Remark:

1. Definition Of Classification Is Listed In Appendix A Of This Report In Accordance With 67/548/EEC And Regulation(EC) NO 1907/2006
2. ND=Not Detected(Lower Than Reporting Limit)
3. In Case SVHC <0.1% For Articles "No Future Obligations Regarding Communication Along The Supply Chain Or Notification Emerge From The Analytical Findings In The Tested Sample". In Case SVHC>0.1% For Articles "Further Obligations Regarding Communication Along The Supply Chain Or Notification May Emerge From The Analytical Findings In The Tested Sample".
4. *¹ Calculated Concentration Are Based On The Identified Heavy Metal Result Identity Of Above Metal Substances Present In The Article Has To Be Further Confirmed. RI Is Evaluated For Element(I.E.Tin,Cobalt,Arsenic,Lead,Sodium,Chromium(VI),Aluminum,Silicon,Zirconium,Molybdenum, Boron, Zinc, Strontium,Cadmium Respectively)
5. *² The Values Are Determined Based On A Reference Anthracene. Test Result Is Calculated As Per Selected Identifiers Of The SVHC.The SVHC Consists Of A Diverse Combination Of Chemical Compounds Fulfilling The Definition Of UVCB (Substances Of Unknown Or Variable Composition, Complex Reaction Products Or Biological Materials) Under Reach Regulation.Due To The UVCB Nature The Reported Values May Be Regarded As Semi-Quantitative.
6. *³ Calculated From Tributyltin(TBT) Content.
7. *⁴ Dibutyltin Dichloride (DBTC) Concentration Is Based On The GC/MS Result Of Dibutyltin (DBT).
8. *⁵ Calculated From Dibutyltin Dichloride(DOT) Content.
9. *⁶ Calculated From Monooctyltin-Trichloride(MOT) Content.
10. *⁷ If Detected, The Sample Contains The Mixture Of Dihexyl Phthalate.
11. # The Results Obtained Represent The Hypothetical Concentration Based On The Numerical Calculation Using A Screening Method Of The Individual Elements Only, And They Are For Reference Purpose Only. It Is Advised To Further Investigate The Actual Result Of Such SVHC Compounds In The Sample By Other Means, Including But Not Limited To, Raw Materials Usage, Chemical Formulation Review, Production Process Study Etc.

Appendix A

Classification Definition Under 67/548/EEC And Regulation (EC) No 1907/2006

Carcinogen Category 1: Substances Known To Be Carcinogenic To Man. There Is Sufficient Evidence To Establish A Causal Association Between Human Exposure To A Substance And The Development Of Cancer.

Carcinogen Category 2: Substances Which Should Be Regarded As If They Are Carcinogenic To Man. There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To A Substance May Result In The Development Of Cancer.

Generally On The Basis Of:

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Appropriate Long-Term Animal Studies
Other Relevant Information

Mutagen Category 1: Substances Known To Be Mutagenic To Man. There Is Sufficient Evidence To Establish A Causal Association Between Human Exposure To A Substance And Heritable Genetic Damage

Mutagen Category 2: Substances Which Should Be Regarded As If They Are Mutagenic To Man. There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To The Substance May Result In The Development Of Heritable Genetic Damage, Generally On The Basis Of:

Appropriate Animal Studies,
Other Relevant Information

Toxic To Reproduction Category 1: Substances Known To Impair Fertility In Humans. There Is Sufficient Evidence To Establish A Causal Relationship Between Human Exposure To The Substance And Impaired Fertility.

Substances Known To Cause Developmental Toxicity In Humans. There Is Sufficient Evidence To Establish A Causal Relationship Between Human Exposure To The Substance And Subsequent Developmental Toxic Effects In The Progeny.

Toxic To Reproduction Category 2: Substances Which Should Be Regarded As If They Impair Fertility In Humans. There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To The Substance May Result In Impaired Fertility On The Basis Of:

Clear Evidence In Animal Studies Of Impaired Fertility In The Absence Of Toxic Effects, Or, Evidence Of Impaired Fertility Occurring At Around The Same Dose Levels As Other Toxic Effects But Which Is Not A Secondary Nonspecific Consequence Of The Other Toxic Effects,

Other Relevant Information

Substances Which Should Be Regarded As If They Cause Developmental Toxicity To Humans. There Is Sufficient Evidence To Provide A Strong Presumption That Human Exposure To The Substance May Result In Developmental Toxicity, Generally On The Basis Of:

Clear Results In Appropriate Animal Studies Where Effects Have Been Observed In The Absence Of Signs Of Marked Maternal Toxicity, Or At Around The Same Dose Levels As Other Toxic Effects But Which Are Not A Secondary Non-Specific Consequence Of The Other Toxic Effects,

Other Relevant Information

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PBT & vPvB: Substances Which Are Persistent, Bioaccumulative And Toxic (PBT) Or Very Persistent And Very Bioaccumulative (vPvB) Pose A Particular Challenge To The Chemicals Safety Management. For These Substances A "Safe" Concentration In The Environment Cannot Be Established With Sufficient Reliability.

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12. Overall Migration Test for Food Contact Plastics [EU No 10/2011 with Amendments]

Test Method : EN 1186:2002

Sample	Simulant(s)	Test Condition	Test Result (mg/dm ²)	Detection Limit (mg/dm ²)	Requirement (mg/dm ²)	Rating
050 (For Second Submission)	A (10% Ethanol)	40°C, 10 days	2.50	1	10	PASS
	B (3% Acetic acid)	40°C, 10 days	2.37	1	10	PASS
	D2 (Iso-octane, Replace Vegetable Oil)	20°C, 2 days	6.84	1	10	PASS
	D ₂ (95% Ethanol, Replace Vegetable Oil)	40°C, 10 days	2.50	1	10	PASS
<" means less than; "mg/dm ² " means milligrams per square decimeter						

13. Specific Migration of Heavy Metals for Food Contact Plastics [EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004; Followed by Analysis Using ICP-OES.

<u>Sample</u>	<u>Simulant/ Test Conditions</u>	<u>Test Item(s)</u>	<u>Test Result (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>	<u>Requirements (mg/kg)</u>	<u>Rating</u>
050	3% Acetic Acid/ 40°C, 10 days	Ba	<0.02	0.02	1	PASS
		Co	<0.02	0.02	0.05	PASS
		Cu	<0.02	0.02	5	PASS
		Fe	<0.02	0.02	48	PASS
		Li	<0.02	0.02	0.6	PASS
		Mn	0.02	0.02	0.6	PASS
		Al	0.02	0.02	1	PASS
		Ni	<0.02	0.02	0.02	PASS
		Zn	0.2	0.02	5	PASS
“<” means less than; “mg/kg” means milligrams per kilogram						

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14. Sensory Examination Test for finished product [LFGB]

Test Method : With reference to DIN 10955:2004

Test media: Distilled water

No. of panellist: 6

Test Item	Test Condition	Sample	Requirement	Rating
		061		
Sensorial examination odour (Point scale)	40°C, 10 days	0	<2.5	PASS
Sensorial examination taste (Point scale)		0	<2.5	PASS

Scale Evaluation:

- 0 = No Perceptible Off-Odour/Taste
- 1 = Off-Odour/Taste Just Perceptible (But Still Difficult To Define)
- 2 = Slight Off-Odour/Taste
- 3 = Distinct Off-Odour/Taste
- 4 = Strong Off-Odour/Taste

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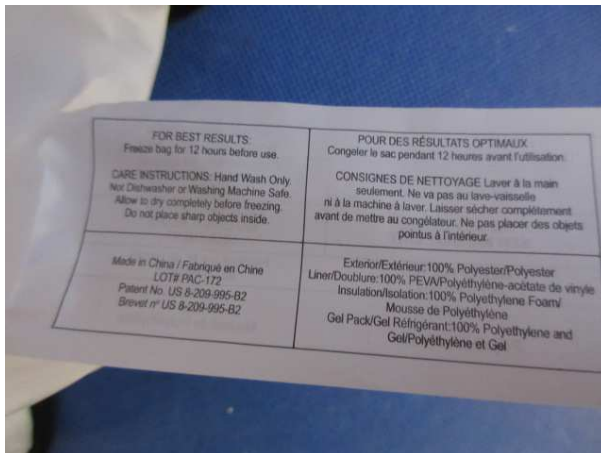
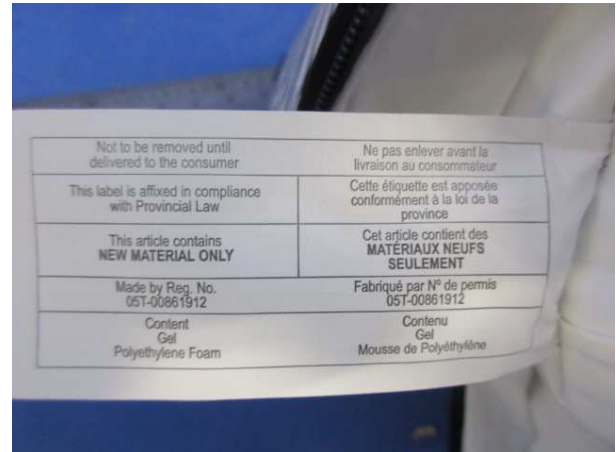
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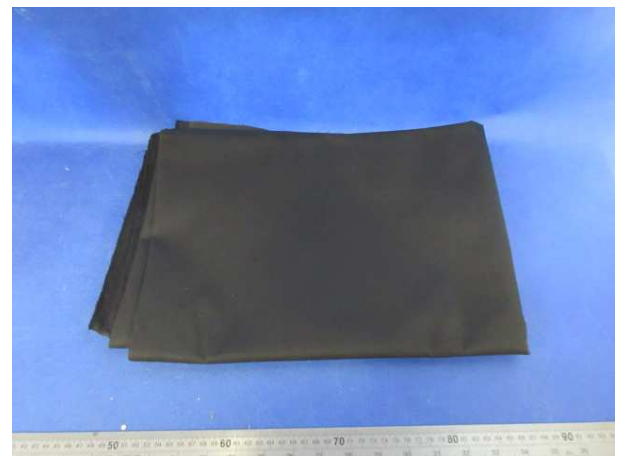
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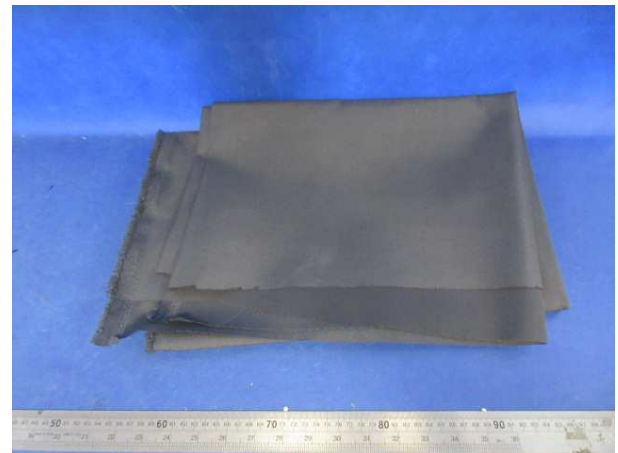
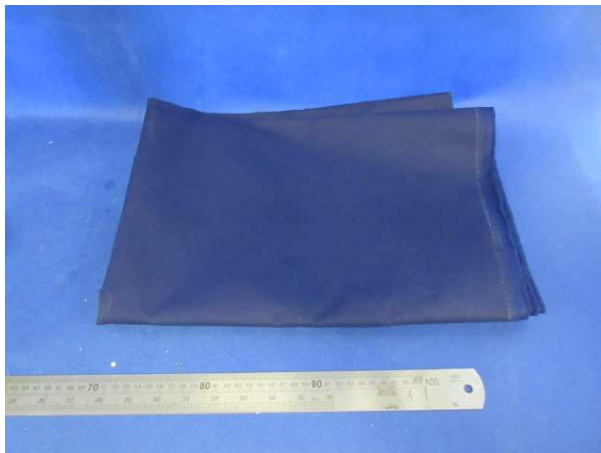
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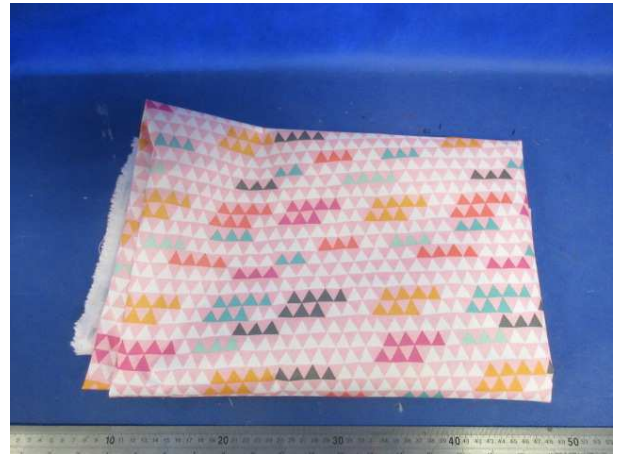


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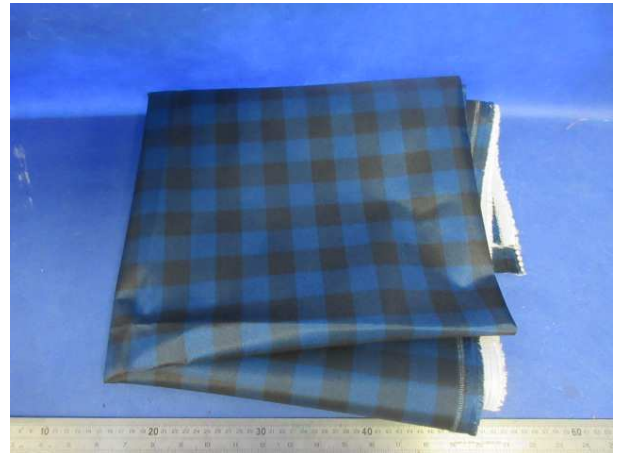
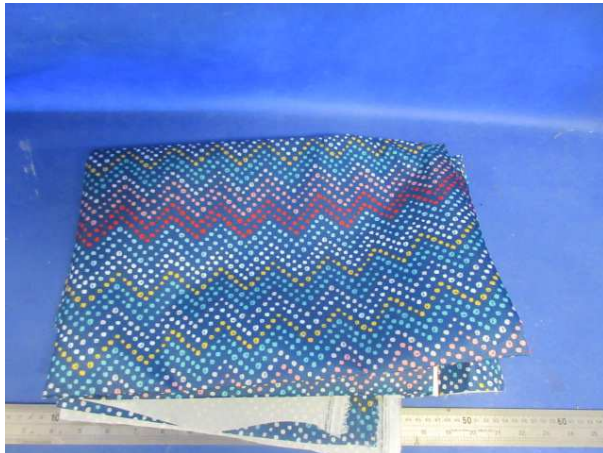
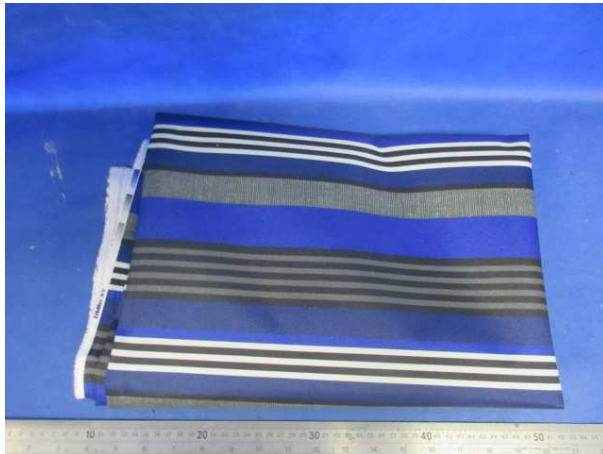
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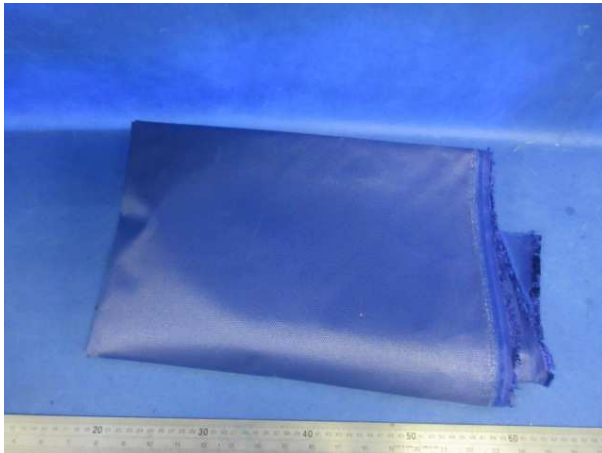


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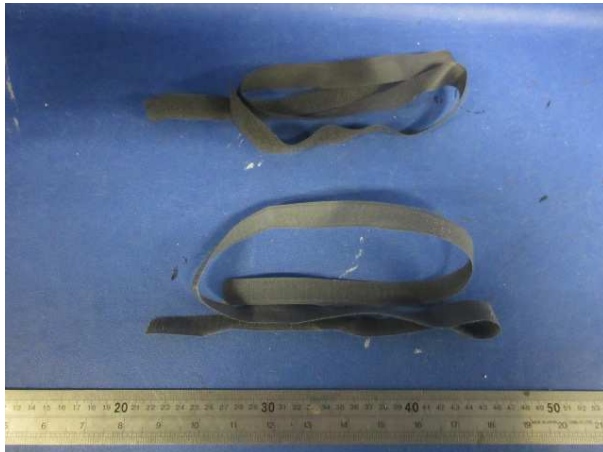


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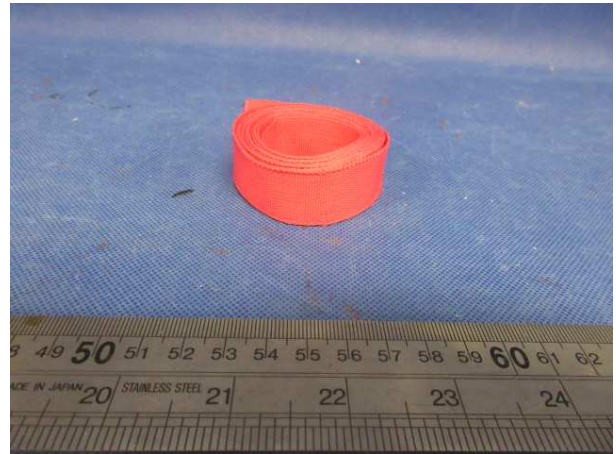
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