



**Test Report**

No. 4865965-CH01

Date: February 8, 2022

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**Solubag USA, Inc.**  
240 Crandon Blvd  
Suite 250  
Key Biscayne, FL 33149  
United States

The following sample(s) was/were submitted and identified by/on behalf of the client as:

- 1. **Fiber Bag, Color: White**
- 2. **Transparent Film Bag, Color: Transparent Film**

Sample Received Date: **01/19/2022**

Testing Period: **01/19/2022 – 02/01/2022**

Test Requested : Please refer to the test results.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Comment
1. RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
2. Phthalates Content	See Test Results
3. Polymer Analysis by Fourier Transform Infrared Spectroscopy (FTIR)	See Test Results
4. EN71-3: 2019 – Migration of Certain Elements	PASS
5. US FDA 21 CFR 175.300 (Resinous and Polymeric Coatings) – Determination of Amount of Extractives	PASS

Signed for and on behalf of SGS North America, Inc.

Prepared By:

Ivan Chan  
Senior Laboratory manager, Chemistry laboratory

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Technical Report Writer, Chemistry Laboratory

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## 1. RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Item(s):	Unit	Test Method	Results		MDL	Limit
			1	2		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd and Pb by ICP-OES and /or ICP-MS)	ND	ND	2	100
Lead (Pb)	mg/kg		ND	ND	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017 (Determination of Hg by ICP-OES and/ or ICP-MS)	ND	ND	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-Vis)	ND*	ND*	8	1000
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB and PBDE by GC-MS)	ND	ND	-	1000
Monobromobiphenyl	mg/kg		ND	ND	5	-
Dibromobiphenyl	mg/kg		ND	ND	5	-
Tribromobiphenyl	mg/kg		ND	ND	5	-
Tetrabromobiphenyl	mg/kg		ND	ND	5	-
Pentabromobiphenyl	mg/kg		ND	ND	5	-
Hexabromobiphenyl	mg/kg		ND	ND	5	-
Heptabromobiphenyl	mg/kg		ND	ND	5	-
Octabromobiphenyl	mg/kg		ND	ND	5	-
Nonabromobiphenyl	mg/kg		ND	ND	5	-
Decabromobiphenyl	mg/kg		ND	ND	5	-
<b>Sum of PBDEs</b>	mg/kg		ND	ND	-	1000
Monobromodiphenyl ether	mg/kg		ND	ND	5	-
Dibromodiphenyl ether	mg/kg		ND	ND	5	-
Tribromodiphenyl ether	mg/kg	ND	ND	5	-	
Tetrabromodiphenyl ether	mg/kg	ND	ND	5	-	
Pentabromodiphenyl ether	mg/kg	ND	ND	5	-	
Hexabromodiphenyl ether	mg/kg	ND	ND	5	-	
Heptabromodiphenyl ether	mg/kg	ND	ND	5	-	
Octabromodiphenyl ether	mg/kg	ND	ND	5	-	
Nonabromodiphenyl ether	mg/kg	ND	ND	5	-	
Decabromodiphenyl ether	mg/kg	ND	ND	5	-	
Bis (2-ethylhexyl) Phthalate (DEHP)	mg/kg	IEC 62321-8:2017 (Determination of DEHP, BBP, DBP and DIBP by GC-MS)	ND	ND	50	1000
Butyl Benzyl Phthalate (BBP)	mg/kg		ND	ND	50	1000
Dibutyl Phthalate (DBP)	mg/kg		ND	ND	50	1000
Diisobutyl Phthalate (DIBP)	mg/kg		ND	ND	50	1000
<b>Conclusion</b>	/	/	PASS	PASS	/	/

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### Sample Description:

1. USA Fiber 18 gsm
2. Transparent Bag 2150 H

### Note:

- (a) mg/kg = ppm ; 0.1wt% = 1000ppm
- (b) ND= not detected
- (c) MDL = Method Detection Limit
- (d) - = not regulated
- (e) \* = Total Chromium analysis by ICP-MS and/or ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.
- (f) IEC 62321 series is equivalent to EN 62321 series  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

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### 2. Phthalates Content

#### Testing was done at an SGS Affiliate Laboratory:

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s) Specimen No.	CAS No.	Result(s) (%)		MDL (%)
		1	2	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.003
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.003
Dimethyl phthalate (DMP)	131-11-3	ND	ND	0.003
Diethyl phthalate (DEP)	84-66-2	ND	ND	0.003
Dinonyl phthalate (DNP)	84-76-4	ND	ND	0.003
Di-isoctyl phthalate (DIOP)	27554-26-3	ND	ND	0.003
Dipropyl phthalate (DPRP)	131-16-8	ND	ND	0.003
Dibenzyl Phthalate (DBzP)	523-31-9	ND	ND	0.003
Diphenyl Phthalate (DPHP)	84-62-8	ND	ND	0.003

#### Specimen Description:

1. White non-woven (Bag)
2. Transparent soft plastic (Bag)

Note:

- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- % = percentage by weight

#### Remark:

1. When statement of conformity is made, unless the decision rule was mentioned in above specified test items, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w = U_{95}$ ) in ILAC-G8:09/2019 Clause 4.2.3.

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“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”

“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

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### 3. Polymer Analysis by Fourier Transform Infrared Spectroscopy (FTIR)

Test Method: Testing was performed using Fourier Transform Infrared Spectroscopy (FTIR) analytical instrumentation.

Sample	Results
USA Fiber 18 gsm	Spectra is consistent with poly (vinyl alcohol)
Transparent Bag 2150 H	Spectra is consistent with poly (vinyl alcohol)

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## 4. EN71-3: 2019 Migration of Certain Elements

Category III: Scraped-off toy material

Method: With reference to EN71-3:2019. Analysis of general elements was performed by ICP-MS. Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

Test Item	Results (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1	2		
Mass of trace amount (mg)	--	--	--	--
Soluble Aluminum (Al)	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	5	17
Soluble Chromium (III) (Cr (III))	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI))	ND	ND	0.01	0.053
Soluble Cobalt (Co)	ND	ND	50	130
Soluble Copper (Cu)	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	10	160
Soluble Manganese (Mn)	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	2.5	180,000
Soluble Organic Tin	ND^	ND^	--	12
Soluble Zinc (Zn)	ND	ND	50	46,000
<b>Comment</b>	PASS	PASS	--	--

### Sample Description:

1. USA Fiber 18 gsm
2. Transparent Bag 2150 H

Note : 1. mg/kg = milligram per kilogram  
 2. ND = Not Detected

Remark : Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)  
 ^ = The test result for Soluble Organic Tin was derived from Soluble tin Screening.  
 Confirmation test for Soluble Organic Tin is performed on components exceeding the screening limit of 2.5 mg/kg.

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### 5. US FDA 21 CFR 175.300 (Resinous and Polymeric Coatings) – Determination of Amount of Extractives

Method : With reference to US FDA 21 CFR 175.300.

Extractants	Test Condition	Result (mg/inch <sup>2</sup> )		Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )
		1	2		
Distilled Water	120°F for 24 hours	ND	ND	1.0	18
<b>Comment</b>	--	PASS	PASS	--	--

#### Sample Description :

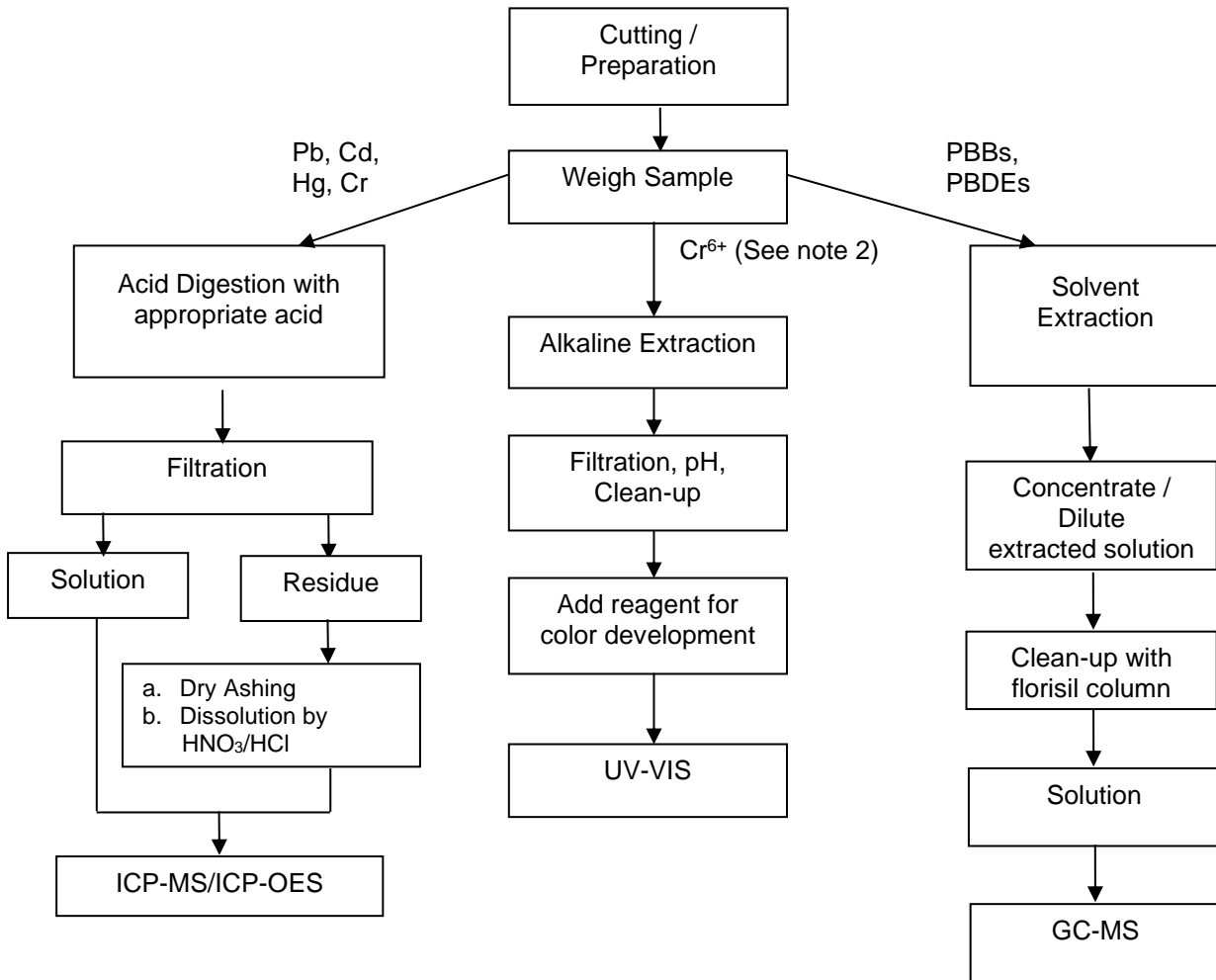
1. USA Fiber 18 gsm
2. Transparent Bag 2150 H

Note : 1. mg/inch<sup>2</sup> = milligram per square inch  
2. °F = degrees Fahrenheit  
3. ND = Not Detected

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**Flowchart for ROHS Testing:**

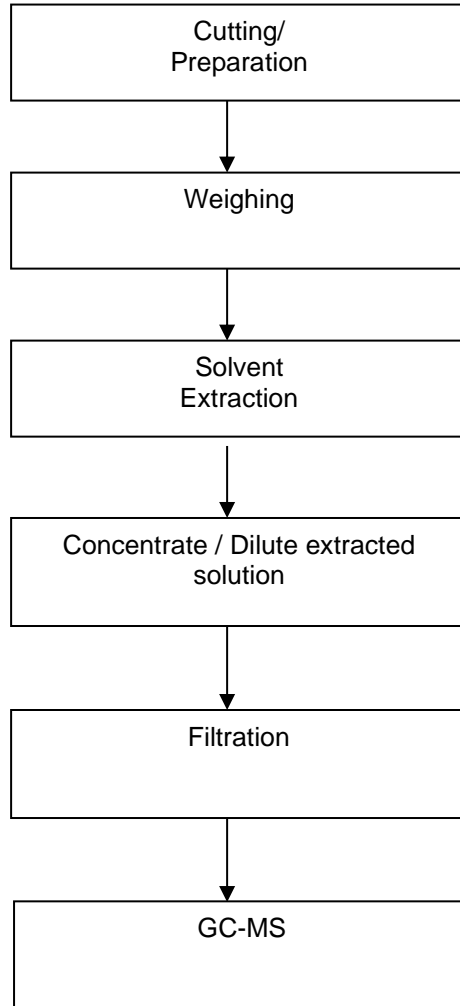


- Note : 1. The Cd, Pb, Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.  
 2. Cr<sup>6+</sup> is performed only when total Cr is detected

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Flowchart for Phthalates



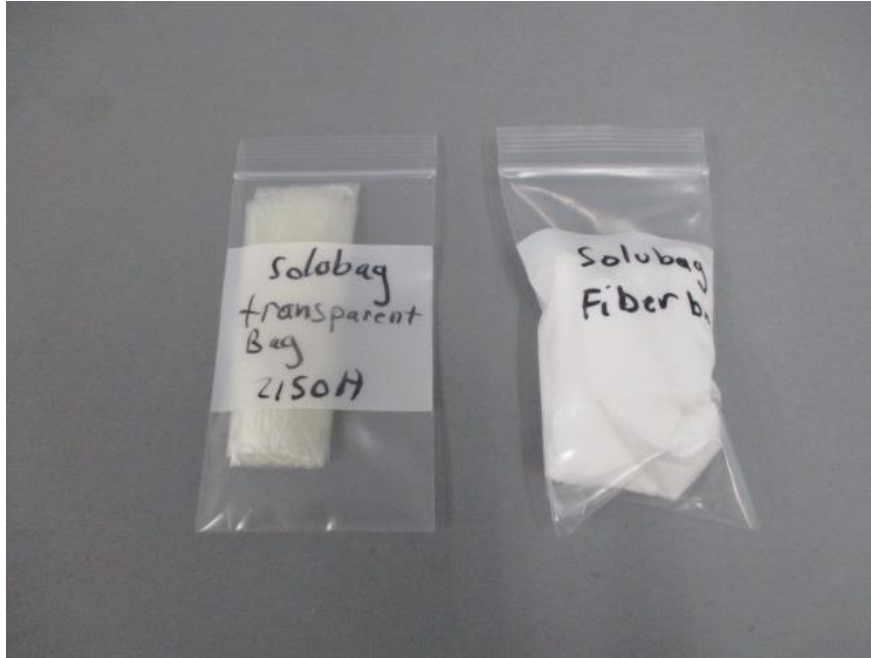
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**Sample Photo:**



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