

Test Report

No.: 70.431.21.15190.01

Dated: 2021-09-18



Greater China

Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA
Product Name: Spectrum 6 can clr bag l.blue
Model No.: 10018208
PO/Order No.: PO#649914
Manufacturer: 10503
Factory Code: 7421
Country of Origin: China
Country of Destination: EU
Receipt Date of Sample: 2021-09-07
Date of Testing: 2021-09-07 to 2021-09-18
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Overall Migration	Pass
2. EU- CM/RES (2013) 9 & GUIDELINES ON METALS AND ALLOYS - Extractable Heavy Metals	Pass
3. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
4. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
5. 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) and 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
6. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. The migration results in this report were tested and expressed based on repeated use articles.
6. The testing approach, the testing methods, and the reported results in this report demonstrate compliance or non-compliance to the client's requirements which were mutually agreed at the contract review and stipulated in the quotation. The testing approach, the testing methods, and the reported results may not or only partially fulfil the associated requirements of the applicable regulations.

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TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch
Testing Center

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Note:

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For further details, please see "Testing and certification regulation", chapter A-3.4
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- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) **Disclaimer Measurement Uncertainty:**
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Description of the Tested Subject

Sample	Description	Photo
A	Spectrum 6 can clr bag l.blue	

Specimen Description	
001	Blue non-woven fabric (body)
002	White fabric (zipper tape)
003	White webbing belt (handle)
004	White plastic (zipper teeth)
005	Metal with white coating (zipper head)
006	White sponge (interlayer)
007	Silver aluminum lining



Test Results

1. Overall Migration

- With reference to EN1186-1:2002 for selection of test methods;
- EN1186-13: 2002 Method B -adsorption by modified polyphenylene oxide;
- Sample 007 Migration ratio: 3.2g/0.80dm²

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm ²]			Maximum Permissible Limit [mg/dm ²]	Conclusion
		007 1 st Migration	007 2 nd Migration	007 3 rd Migration		
MPPO	40°C for 24 hours	<3.0	<3.0	<3.0	10	Pass

Note: 1. Limit was according to (EU)10/2011, The compliance rule is based on the requirement of (EU)2020/1245.



2. EU- CM/RES (2013) 9 & GUIDELINES ON METALS AND ALLOYS - Extractable Heavy Metals

- Test with reference to EN 13130-1:2004.
- Test condition: Artificial tap water, 40°C for 24 hours
- Sample 001 migration ratio: 100ml/0.75dm²

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]		Conclusion
	007		3 rd migration	1 st + 2 nd migration	
	3 rd migration	1 st + 2 nd migration			
Silver	<0.01	<0.02	0.08	0.56	Pass
Aluminium	<0.5	<1.0	5	35	Pass
Cobalt	<0.01	<0.02	0.02	0.14	Pass
Chromium	<0.02	0.12	0.25	1.75	Pass
Copper	<0.2	<0.4	4	28	Pass
Iron	<1.0	<2.0	40	280	Pass
Magnesium	<0.05	<0.1	--	--	--
Manganese	<0.2	<0.4	1.8	12.6	Pass
Molybdenum	<0.01	<0.02	0.12	0.84	Pass
Nickel	<0.02	<0.04	0.14	0.98	Pass
Tin	<1.0	<2.0	100	700	Pass
Titanium	<0.05	<0.1	--	--	--
Vanadium	<0.01	<0.02	0.01	0.07	Pass
Zinc	<0.5	<1.0	5	35	Pass
Arsenic	<0.001	<0.002	0.002	0.014	Pass
Barium	<0.1	<0.2	1.2	8.4	Pass
Beryllium	<0.01	<0.02	0.01	0.07	Pass
Cadmium	<0.001	<0.002	0.005	0.035	Pass
Mercury	<0.001	<0.002	0.003	0.021	Pass
Lithium	<0.01	<0.02	0.048	0.336	Pass
Lead	<0.01	<0.02	0.01	0.07	Pass
Antimony	<0.01	<0.02	0.04	0.28	Pass
Thallium	<0.0001	<0.0002	0.0001	0.0007	Pass

Note: 1. Test condition and simulant were specified by client

3. **Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments**

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002+003	mg/kg	10.0	500	<10.0	Pass
004+007	mg/kg	10.0	500	<10.0	Pass
005	mg/kg	10.0	500	23.2	Pass

4. **Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments**

Test with reference to Acid digestion and EN 1122:2001 Method B, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002+003	mg/kg	5	<100	<5.0	Pass
004+007	mg/kg	5	<100	<5.0	Pass
005	mg/kg	10	<100	<10.0	Pass
006	mg/kg	5	<100	<5.0	Pass

5. **2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) and 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)**

Test with reference to in house method and determination by LC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					001+003
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	%	0.01	<0.1	<0.01
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	%	0.01	<0.1	<0.01
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	%	0.01	<0.1	<0.01
Conclusion					Pass

6. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment

Test with reference to EN ISO 14362-1:2017, determination by GC-MS/HPLC.

No.	Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
					001+003
1	4-aminobiphenyl	92-67-1	5.0	<30	<5.0
2	Benzidine	92-87-5	5.0	<30	<5.0
3	4-chloro-o-toluidine	95-69-2	5.0	<30	<5.0
4	2-naphthylamine	91-59-8	5.0	<30	<5.0
5	o-aminoazotoluene	97-56-3	5.0	<30	<5.0
6	5-nitro-o-toluidine	99-55-8	5.0	<30	<5.0
7	4-chloroaniline	106-47-8	5.0	<30	<5.0
8	2,4-diaminoanisole	615-05-4	5.0	<30	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	5.0	<30	<5.0
10	3,3'-dichlorobenzidine	91-94-1	5.0	<30	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	5.0	<30	<5.0
12	3,3'-dimethylbenzidine	119-93-7	5.0	<30	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	5.0	<30	<5.0
14	p-cresidine	120-71-8	5.0	<30	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	5.0	<30	<5.0
16	4,4'-oxydianiline	101-80-4	5.0	<30	<5.0
17	4,4'-thiodianiline	139-65-1	5.0	<30	<5.0
18	o-toluidine	95-53-4	5.0	<30	<5.0
19	2,4-toluenediamine	95-80-7	5.0	<30	<5.0
20	2,4,5-trimethylaniline	137-17-7	5.0	<30	<5.0
21	2-methoxyaniline	90-04-0	5.0	<30	<5.0
22	2,4-xylidine	95-68-1	5.0	<30	<5.0
23	2,6-xylidine	87-62-7	5.0	<30	<5.0
24	4-aminoazobenzene	60-09-3	5.0	<30	<5.0
Conclusion					Pass

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤ 30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) Banned AZO dyes in accordance to REACH regulation (EC) No. 1907/2006 and Amendment No. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)

- End of Test Report -