



Greater China

Test Report

No.: 70.431.21.13439.01

Dated: 2021-06-25

Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA
Product Name: Recycled cotton backpack / Recycled cotton duffel
Model No.: 12058106 – nat / 12058155 – hny 12058190 – hbk / 12058206 – nat 12058155 – hny / 12058290 – hbk
PO/Order No.: PO#648713 / 648714
Manufacturer: #10502
Factory Code: #3456
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2021-06-15
Date of Testing: 2021-06-15 to 2021-06-25
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. Chromium (VI) Content Test	Pass*
2. Extractable heavy metals content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
3. Formaldehyde Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
4. Dimethylformamide, N,N-dimethylacetamide (DMAC), N-Methyl-2-pyrrolidone Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
5. Dye stuff Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
6. Azo Dyes Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
7. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
8. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
9. N,N-dimethylacetamide (DMAC) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
10. N,N-dimethylformamide Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass

Remarks: 1. MDL = Method Detection Limit
 2. ND = Not Detected (<MDL)
 3. <= Less than
 4. 1 mg/kg = 1 ppm = 0.0001%
 5. *= Conclusion was drawn according to client's specification.



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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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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	Recycled cotton backpack	
B	Recycled cotton backpack	
C	Recycled cotton backpack	
D	Recycled cotton duffel	

Sample	Description	Photo
E	Recycled cotton duffel	
F	Recycled cotton duffel	

Specimen Description

001	Blue/white fabric (body, A/D)
002	Grey/white fabric (body, B/E)
003	Beige fabric (body, C/F)
004	Beige webbing belt (handle/D/E/F)
005	Grey webbing belt (handle/shoulder belt/A/B/C)
006	White non-woven fabric (binding, A/B/C/D/E/F)
007	Light grey fabric (zipper tape, A/B/C/D/E/F)
008	Black plastic (buckle, A/B/C/D/E/F)
009	Light grey plastic (zipper teeth, A/B/C/D/E/F)
010	Silver metal (zipper head/slider, A/B/C/D/E/F)



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Test Report**No.: 70.431.21.13439.01****Dated: 2021-06-25****Test Results****1. Chromium (VI) Content Test**

With reference to ISO 17075-1:2017 and analyzed by UV-Vis .

Test Item	Limit [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]		
			001	002	003
Chromium VI (Cr VI)	3	3	<3	<3	<3
Conclusion			Pass	Pass	Pass

Remark: 1. Limit was according to client's requirement

2. Extractable heavy metals content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to EN 16711-2:2015, determination by ICP-OES/ICP-MS.

Test Item	Limit [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]	
			001+002	003
Cadmium As (Cd)	1	0.1	<0.1	<0.1
Arsenic As (As)	1	0.2	<0.2	<0.2
Chromium VI (Cr VI)*	1	0.5	<0.5	<0.5
Lead As (Pb)	1	0.2	<0.2	<0.2
Conclusion			Pass	Pass

Remark: * = Chromium VI was determined by screening of chromium

3. Formaldehyde Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to EN ISO 14184-1:2011, determination by UV-Vis.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	16	<75	<16	Pass
003	mg/kg	16	<75	<16	Pass

4. Dimethylformamide, N,N-dimethylacetamide (DMAC), N-Methyl-2-pyrrolidone Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to DIN CEN ISO/TS 16189:2013, determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result
					001+002
Dimethylformamide	68-12-2	mg/kg	10	3000	<10
N,N-dimethylacetamide (DMAC)	127-19-5	mg/kg	10	3000	<10
N-Methyl-2-pyrrolidone	--	mg/kg	10	3000	<10
Conclusion					Pass

Compound	CAS No.	Unit	MDL	Limit	Result
					003
Dimethylformamide	68-12-2	mg/kg	10	3000	<10
N,N-dimethylacetamide (DMAC)	127-19-5	mg/kg	10	3000	<10
N-Methyl-2-pyrrolidone	--	mg/kg	10	3000	<10
Conclusion					Pass

5. Dyestuff Content Requirement in Annex XVII, Item 72 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to DIN 54231:2005, determination by LC-MS.

Compounds	CAS No	Unit	MDL	Limit	Results	
					001+002	003
C.I. Basic Red 9	569-61-9	mg/kg	7.5	<50	<7.5	<7.5
C.I. Disperse Blue 1	2475-45-8	mg/kg	7.5	<50	<7.5	<7.5
Basic Violet 3	548-62-9	mg/kg	7.5	<50	<7.5	<7.5
Conclusion					Pass	Pass

6. Azo Dyes Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

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+002	003
1	4-Chloro-o-toluidinium chloride	3165-93-3	5.0	<30	<5.0	<5.0
2	2-Naphthylammoniumacetate	553-00-4	5.0	<30	<5.0	<5.0
3	4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	5.0	<30	<5.0	<5.0
4	2,4,5-Trimethylaniline hydrochloride	21436-97-5	5.0	<30	<5.0	<5.0
Conclusion					Pass	Pass

7. 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	mg/kg	10	500	<10.0	Pass
003+004+005	mg/kg	10	500	<10.0	Pass
006+007	mg/kg	10	500	<10.0	Pass
008+009	mg/kg	10	500	<10.0	Pass
010	mg/kg	10	500	26	Pass

8. 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	mg/kg	5	<100	<5.0	Pass
003+004+005	mg/kg	5	<100	<5.0	Pass
006+007	mg/kg	5	<100	<5.0	Pass
008+009	mg/kg	5	<100	<5.0	Pass

9. **N,N-dimethylacetamide (DMAC) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)**

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

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					001+002
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	0.1	<0.01
Conclusion					Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					003
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	0.1	<0.01
Conclusion					Pass

10. **N,N-dimethylformamide Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)**

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

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					001+002
N,N-dimethylformamide; dimethyl formamide (CAS 68-12-2)	68-12-2	%	0.01	0.1	<0.01
Conclusion					Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					003
N,N-dimethylformamide; dimethyl formamide (CAS 68-12-2)	68-12-2	%	0.01	0.1	<0.01
Conclusion					Pass

- End of Test Report -