



Greater China

# Test Report

**No.: 70.431.20.15654.01**

**Dated: 2020-12-02**

**Applicant:** POLYCONCEPT GBS  
**Address:** 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA  
**Product Name:** Baikal GRS RPET Ip bp  
 Baikal GRS RPET duffel bg  
 Baikal GRS RPET backpack  
 Baikal GRS RPET laptop bg  
**Model No.:** 12054255 - ny 12054280 – hgy 12054290 - bk 12054355 – ny 12054380 – hgy  
 12054390 – bk 12054455 – ny 12054480 – hgy 12054490 - bk 12054555 – ny  
 12054580 – hgy 12054590 - bk  
**PO/Order No.:** 646681 / 646682 / 646683 / 646684  
**Manufacturer:** #10502  
**Factory Code:** #3456  
**Country of Origin:** CHINA  
**Country of Destination:** EU  
**Receipt Date of Sample:** 2020-11-17  
**Date of Testing:** 2020-11-17 to 2020-12-01  
**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. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
3. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
4. 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320), 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)	<0.1%(w/w)
5. N,N-dimethylacetamide (DMAC) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
6. Pentadecafluorooctanoic acid (PFOA) and Perfluorohexane-1-sulphonic acid and its salts (PFHxS) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
7. Perfluorooctane Sulphonates (PFOS) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass
8. Phthalates Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
9. Tris(2-chloroethyl) phosphate (TCEP) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)



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Test Item	Conclusion
10. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment	Pass
11. Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass

Remarks: 1. MDL = Method Detection Limit  
 2. ND = Not Detected (<MDL)  
 3. <= Less than  
 4. 1 mg/kg = 1 ppm = 0.0001%

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

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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
A1	Baikal GRS RPET laptop bg 12054590 - bk	
A2	Baikal GRS RPET laptop bg 12054580 – hgy	
A3	Baikal GRS RPET laptop bg 12054555 – ny	
B1	Baikal GRS RPET backpack 12054490 - bk	

Sample	Description	Photo
B2	Baikal GRS RPET backpack 12054480 – hgy	
B3	Baikal GRS RPET backpack 12054455 – ny	
C1	Baikal GRS RPET duffel bg 12054390 – bk	
C2	Baikal GRS RPET duffel bg 12054355 – ny	

Sample	Description	Photo
C3	Baikal GRS RPET duffel bg 12054380 – hgy	
D1	Baikal GRS RPET lp bp 12054290 - bk	
D2	Baikal GRS RPET lp bp 12054255 - ny	
D3	Baikal GRS RPET lp bp 12054280 – hgy	

Sample	Description	Photo
019	Black soft plastic (inner edge, C)	

Specimen Description	
001	Black main fabric with backing (body/shoulder pad, A/B/C/D)
002	Grey main fabric with backing (body/shoulder pad, A/B/C/D)
003	Navy main fabric with backing (body/shoulder pad, A/B/C/D)
004	Black lining fabric (A/B/C/D)
005	Black webbing fabric (shoulder belt/handle/edge, A/B/C/D)
006	Black thin webbing fabric (on hook, D)
007	Black zipper fabric (A/B/C/D)
008	Black/blue rope (zipper puller, A/B/C/D)
009	Black textile loop (A/C/D)
010	Black thick mesh fabric (back of bag, D)
011	Black mesh fabric (side of pocket, C/D)
012	Blue/light blue fabric (inner bag/on back, A/B/C)
013	White/ blue fabric (trademark/back of bag, A/B/C/D)
014	Black elastic band (side of pocket, C/D)
015	Black plastic (adjuster/buckle/hook, A/B/C/D)
016	Black plastic (zipper teeth, A/B/C/D)
017	Black/blue soft plastic (zipper puller, A/B/C/D)
018	Black hook plastic (A/C/D)
019	Black soft plastic (inner edge, C)
020	Black soft plastic with black backing (side of pocket, C)
021	Metal with black coating (zipper head, A/B/C)
022	White foam (inner shoulder belt, A/B/C/D)
023	Black foam (inner shoulder belt/back of bag, D)

## Test Results

1. 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	500	<10.0	Pass
004+005+006	mg/kg	10	500	<10.0	Pass
007+008+009	mg/kg	10	500	<10.0	Pass
010+011+012	mg/kg	10	500	<10.0	Pass
013+014	mg/kg	10	500	<10.0	Pass
015+016	mg/kg	10	500	<10.0	Pass
017+018	mg/kg	10	500	<10.0	Pass
019+020	mg/kg	10	500	<10.0	Pass
021	mg/kg	10	500	35	Pass

2. 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+005+006	mg/kg	5	<100	<5.0	Pass
007+008+009	mg/kg	5	<100	<5.0	Pass
010+011+012	mg/kg	5	<100	<5.0	Pass
013+014	mg/kg	5	<100	<5.0	Pass
015+016	mg/kg	5	<100	<5.0	Pass
017+018	mg/kg	5	<100	<5.0	Pass
019+020	mg/kg	5	<100	<5.0	Pass
022+023	mg/kg	5	<100	<5.0	Pass

### 3. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002+003	014+017+019
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	0.011	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
<b>Sum of DBP, BBP, DEHP, DIBP</b>	-	%	0.005	<b>&lt;0.1</b>	<b>0.011</b>	<b>ND</b>
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	0.005	<b>&lt;0.1</b>	<b>ND</b>	<b>ND</b>
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					020
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND
<b>Sum of DBP, BBP, DEHP, DIBP</b>	-	%	0.005	<b>&lt;0.1</b>	<b>ND</b>
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	ND
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND
<b>Sum of DINP, DIDP, DNOP</b>	-	%	0.005	<b>&lt;0.1</b>	<b>ND</b>
<b>Conclusion</b>					<b>Pass</b>



4. **2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320), 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+002+003+005+008+010+015
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	%	0.01	0.1	<0.01
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

5. **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+003+005+008+010+015
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	0.1	<0.01

**6. Pentadecafluorooctanoic acid (PFOA) 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+002+003
Pentadecafluorooctanoic acid (PFOA)	335-67-1	%	0.01	0.1	<0.01
<b>Conclusion</b>					<b>Pass</b>

**7. Perfluorooctane Sulphonates (PFOS) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)**

With reference to CEN/TS 15968:2010, determined by LC-MS-MS

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002
Perfluorooctansulfonate (PFOS)	1763-23-1	µg/m <sup>2</sup>	0.5	<1.0	<0.5	<0.5
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					003
Perfluorooctansulfonate (PFOS)	1763-23-1	µg/m <sup>2</sup>	0.5	<1.0	<0.5
<b>Conclusion</b>					<b>Pass</b>

### 8. Phthalates 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+003+014+017+019+020
Benzylbutylphthalate (BBP)	85-68-7	%	0.01	0.1	<0.01
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.01	0.1	<0.01
Dibutylphthalate (DBP)	84-74-2	%	0.01	0.1	<0.01
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.01	0.1	<0.01
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	0.1	<0.01
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	0.1	<0.01
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	0.1	<0.01
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	0.1	<0.01
Diisopentylphthalate (DIPP)	605-50-5	%	0.01	0.1	<0.01
N-pentyl-isopentylphthalate	776297-69-9	%	0.01	0.1	<0.01
Dipentyl phthalate (DPP)	131-18-0	%	0.01	0.1	<0.01
Di-n-hexyl phthalate (DnHP/DHP/DHEXP)	84-75-3	%	0.01	0.1	<0.01
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	0.1	<0.01
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.01	0.1	<0.01
Dicyclohexyl phthalate(DCHP)	84-61-7	%	0.01	0.1	<0.01
Diisohexyl phthalate (DIHxP)	71850-09-4	%	0.01	0.1	<0.01



9. Tris(2-chloroethyl) phosphate (TCEP) 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+002+003+014+017+019+020
Tris (2-chloroethyl) phosphate	115-96-8	%	0.01	0.1	<0.01



# Test Report

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## 10. 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+002+003	005+008+010
1	4-aminobiphenyl	92-67-1	5.0	<30	<5.0	<5.0
2	Benzidine	92-87-5	5.0	<30	<5.0	<5.0
3	4-chloro-o-toluidine	95-69-2	5.0	<30	<5.0	<5.0
4	2-naphthylamine	91-59-8	5.0	<30	<5.0	<5.0
5	o-aminoazotoluene	97-56-3	5.0	<30	<5.0	<5.0
6	5-nitro-o-toluidine	99-55-8	5.0	<30	<5.0	<5.0
7	4-chloroaniline	106-47-8	5.0	<30	<5.0	<5.0
8	2,4-diaminoanisole	615-05-4	5.0	<30	<5.0	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	5.0	<30	<5.0	<5.0
10	3,3'-dichlorobenzidine	91-94-1	5.0	<30	<5.0	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	5.0	<30	<5.0	<5.0
12	3,3'-dimethylbenzidine	119-93-7	5.0	<30	<5.0	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	5.0	<30	<5.0	<5.0
14	p-cresidine	120-71-8	5.0	<30	<5.0	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	5.0	<30	<5.0	<5.0
16	4,4'-oxydianiline	101-80-4	5.0	<30	<5.0	<5.0
17	4,4'-thiodianiline	139-65-1	5.0	<30	<5.0	<5.0
18	o-toluidine	95-53-4	5.0	<30	<5.0	<5.0
19	2,4-toluenediamine	95-80-7	5.0	<30	<5.0	<5.0
20	2,4,5-trimethylaniline	137-17-7	5.0	<30	<5.0	<5.0
21	2-methoxyaniline	90-04-0	5.0	<30	<5.0	<5.0
22	2,4-xylidine	95-68-1	5.0	<30	<5.0	<5.0
23	2,6-xylidine	87-62-7	5.0	<30	<5.0	<5.0
24	4-aminoazobenzene	60-09-3	5.0	<30	<5.0	<5.0
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

### Interpretation of test results:

- (1) In the case of the measured value per amine component  $\leq 30$  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)



11. Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)

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

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002+003	014+017+019
SCCP	85535-84-8	mg/kg	100	<1500	<100	<100
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					020
SCCP	85535-84-8	mg/kg	100	<1500	<100
<b>Conclusion</b>					<b>Pass</b>

- End of Test Report -

