

Test Report

No.: 70.431.22.16022.01R1

Dated: 2022-12-12



Greater China

Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA
Product Name: Felta GRS cooler bp – mgrey
Felta GRS bottle cooler-mgrey
Felta GRS tote wide-mgrey
Felta GRS roll-top-mgrey
Model No.: 21074282/12066782/12066282/12066382
PO/Order No.: PO#656708/656978
Manufacturer: #10502
Factory Code: #13924/#13521/#3456
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2022-11-29
Date of Testing: 2022-11-29 to 2022-12-08
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Remark: This report supersedes the previous report 70.431.22.16022.01.

Test Item	Conclusion
1. Chromium (VI) Content Test	Pass
2. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
3. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
4. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment	Pass
5. Azo Dyes Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
6. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
7. 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
8. Formaldehyde Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
9. Dyestuff Content Requirement in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
10. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
11. Chlorotoluenes content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass

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Test Item	Conclusion
12. Phthalates Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
13. 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)
14. 2-methylimidazole Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
15. Dibutylbis(pentane-2,4dionato-O,O')tin Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
16. N,N-dimethylacetamide (DMAC) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
17. N,N-dimethylformamide Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	Pass
18. Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)	<0.1%(w/w)
19. Extractable heavy metals content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
20. Quinoline Content Requirement in Annex XVII, Item 72 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
21. C,C-Azodi(formamide) 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%



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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.
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Description of the Tested Subject

Sample	Description	Photo
001	Felta GRS cooler bp – mgrey	
002	Felta GRS bottle cooler-mgrey	
003	Felta GRS tote wide-mgrey	
004	Felta GRS roll-top-mgrey	



T. No	Sample	Description
T1	005	Grey felt fabric (body, 001~004)
T2	006	Black woven fabric (zipper tape, 001/002)
T3	007	Black/white fabric (trademark, 001~004)
T4	008	Black woven tape (on shoulder strap/handle/, 001~004)
T5	009	Black woven fabric (binding of shoulder strap of 001, binding of pocket of 002)
T6	010	Black woven fabric (lining and back of shoulder strap, 001)
T7	011	Black plastic (zipper teeth, 001/002)
T8	012	Grey soft plastic (lining, 001/002)
T9	013	Silvery metal with black coating (zipper head/slider,001/002)
T10	014	Semi-transparent foam (interlayer,001/002)
T11	015	Black plastic (buckle on shoulder strap of 001/ buckle on the side and adjustable buckle of 002/release buckle and buckle at both sides and adjustable buckle of 004)
T12	016	Black plastic (D ring, 004)
T13	017	Black textile loop fastener (on handle of 002/004, fixer on back of 004)
T14	018	Black plastic hook fastener (on handle of 002/004, fixer on back of 004)



Test Results

1. Chromium (VI) Content Test

Test with reference to ISO 17075-1:2017, determination by UV-VIS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008
Chromium VI Content	-	mg/kg	3.0	<3.0	<3.0
Conclusion					Pass

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

2. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to AfPS GS 2019:01, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					005+009+010
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	<1	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	<1	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	<1	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	<1	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	<1	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	<1	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	<1	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	<1	ND
Conclusion					Pass

3. 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
005+006+008	mg/kg	5	<100	<5.0	Pass
007	mg/kg	5	<100	<5.0	Pass
009+010+017	mg/kg	5	<100	<5.0	Pass
011+015	mg/kg	5	<100	<5.0	Pass
012	mg/kg	5	<100	<5.0	Pass
013	mg/kg	10	<100	<10.0	Pass
014	mg/kg	5	<100	<5.0	Pass
016+018	mg/kg	5	<100	<5.0	Pass

4. **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]
					005+008+009
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)

5. 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.

Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
				005+008+009
4-Chloro-o-toluidinium chloride	3165-93-3	5.0	<30	<5.0
2-Naphthylammoniumacetate	553-00-4	5.0	<30	<5.0
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	5.0	<30	<5.0
2,4,5-Trimethylaniline hydrochloride	21436-97-5	5.0	<30	<5.0
Conclusion				Pass

6. 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
005+006+008	mg/kg	10.0	500	<10.0	Pass
007	mg/kg	10.0	500	<10.0	Pass
009+010+017	mg/kg	10.0	500	<10.0	Pass
011+015	mg/kg	10.0	500	<10.0	Pass
012	mg/kg	10.0	500	<10.0	Pass
013	mg/kg	10.0	500	26.9	Pass
016+018	mg/kg	10.0	500	<10.0	Pass

7. 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
					005+009+010
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

8. 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
005+009+010	mg/kg	16	<75	<16	Pass

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

Test with reference to DIN 54231:2022, determination by LC-MS.

Compounds	CAS No	Unit	MDL	Limit	Results
					005+009+010
C.I. Basic Red 9	569-61-9	mg/kg	7.5	<50	<7.5
C.I. Disperse Blue 1	2475-45-8	mg/kg	7.5	<50	<7.5
Basic Violet 3	548-62-9	mg/kg	7.5	<50	<7.5
Conclusion					Pass

10. 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)
					010
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
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	<0.1	ND
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	0.009
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	<0.1	0.009
Conclusion					Pass

11. Chlorotoluenes content in Annex XVII, Item 72 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to DIN 54232:2010, determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result
					005+009+010
p-Chlorobenzotrichloride	5216-25-1	ppm	0.1	<1	<0.1
Benzotrichloride	98-07-7	ppm	0.1	<1	<0.1
BenzylChloride	100-44-7	ppm	0.1	<1	<0.1
Conclusion					Pass

12. 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) [%]
					010
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 ≥ 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
Conclusion					Pass

13. 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) [%]
					005+006+008+009+010+011+012+015+016
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

14. 2-methylimidazole Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

Test with reference to in house method

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					005+006+009+010+011+012+014+015+016
2-methylimidazole	693-98-1	%	0.01	<0.1	<0.01

15. Dibutylbis(pentane-2,4dionato-O,O')tin Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

Test with reference to in house method

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					005+006+009+010+011+012+014+015+016
Dibutylbis(pentane-2,4dionato-O,O')tin	22673-19-4	%	0.01	<0.1	<0.01

16. 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) [%]
					005+006+008+009+010
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.01	<0.1	<0.01

17. 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) [%]
					008
N,N-dimethylformamide; dimethyl formamide (CAS 68-12-2)	68-12-2	%	0.01	<0.1	<0.01
Conclusion					Pass

18. Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

Test with reference to in house method

Compound	CAS No.	Unit	MDL	Limit	Result(s) [%]
					005+006+009+010+011+012+014+015+016
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	--	%	0.01	<0.1	<0.01

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19. 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]	
			005	009+010
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	0.209
Conclusion			Pass	Pass

Remark: 1. * = Chromium VI was determined by screening of chromium

20. Quinoline 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.

Compound	CAS No.	Unit	MDL	Limit	Result
					005+009+010
Quinoline	91-22-5	mg/kg	10	<50	<10
Conclusion					Pass

21. C,C'-Azodi(formamide) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

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

Compound	Unit	MDL	Limit	Result(s)
				014
C,C'-azodi(formamide)	mg/kg	100	<1000	<100
Conclusion				Pass

- End of Test Report -