



Greater China

Test Report

No.: 70.431.20.16416.01

Dated: 2021-01-07

Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA
Product Name: Dual Cube Cooler - BKGA
Model No.: 12043200
PO/Order No.: 647229
Manufacturer: #10593
Factory Code: #13461
Country of Origin: CHINA
Country of Destination: EU
Receipt Date of Sample: 2020-12-17
Date of Testing: 2020-12-21 to 2021-01-07
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. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment	Pass
2. EU-Regulation (EU) No 10/2011 and its amendments-Overall Migration	Pass
3. EU-Regulation (EU) No 10/2011 and its amendments-Specific Migration of Heavy Metals	Pass
4. Specific Migration of Polycyclic Aromatic Hydrocarbons (PAHs)	Pass*
5. EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Vinyl Acetate	Pass
6. EU-Regulation (EU) No 10/2011 and its amendments -Special Migration of Phthalates	Pass

- Remarks:
1. MDL = Method Detection Limit
 2. ND = Not Detected (<MDL)
 3. <= Less than
 4. 1 mg/kg = 1 ppm = 0.0001%
 5. mg/dm² denotes milligram per square decimeter
 6. *= Conclusion was drawn according to client's specification

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

Prepared by:

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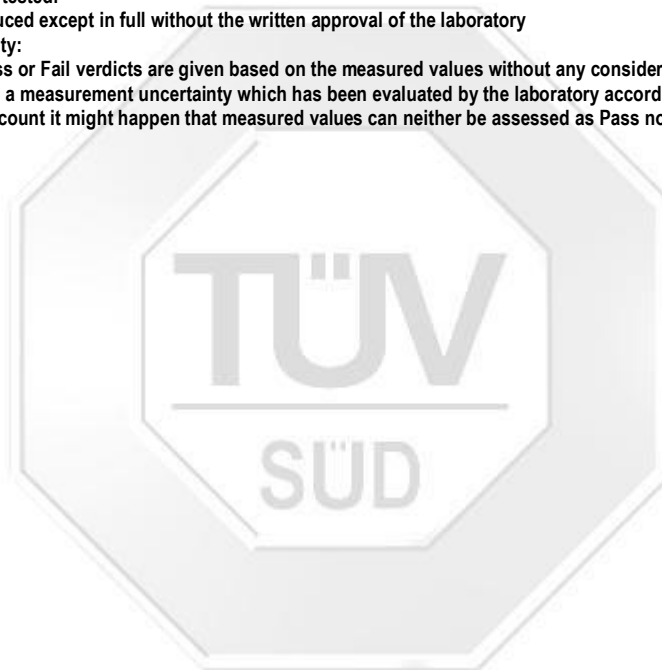


Authorized by:


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Technical Manager

Note:

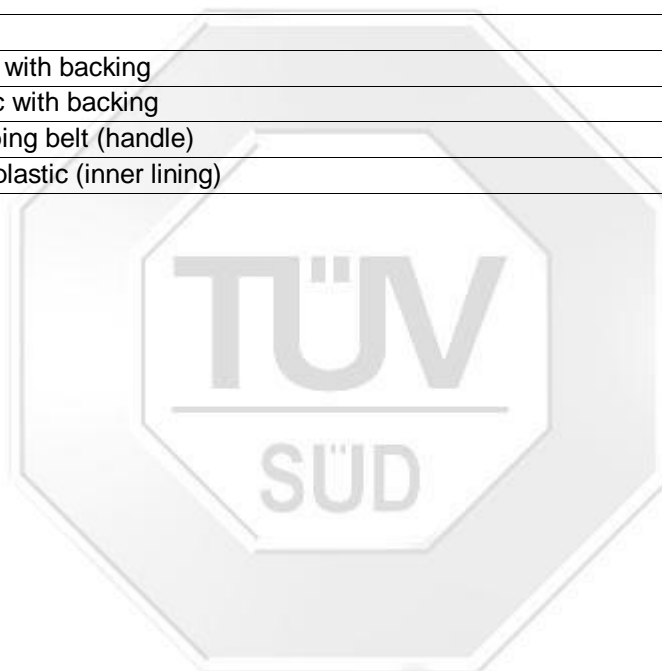
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Description of the Tested Subject

Sample	Description	Photo
A	Dual Cube Cooler - BKGA	

Specimen Description	
001	Grey fabric with backing
002	Black fabric with backing
003	Black webbing belt (handle)
004	White soft plastic (inner lining)



Test Results

1. 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
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)

2. EU-Regulation (EU) No 10/2011 and its amendments -Overall Migration

- With reference to EN1186-1:2002 for selection of test methods;
EN1186-3:2002 aqueous food simulants by total immersion method;
- Sample 004 Migration ratio: 200ml/1.20dm²

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]	Conclusion
		004		
10% Ethanol	20°C for 10 days	3.9	10	Pass

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

3. EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Heavy Metals

- With reference to EN 13130-1:2004, determination by ICP-MS.
- Test condition: 10% Ethanol, 20°C for 6 hours
- Sample 004 Migration ratio: 200ml/1.20dm²

Test Item(s)	Result(s) [mg/kg]	Limit [mg/kg]	Conclusion
	004		
Aluminium	<0.1	1	Pass
Barium	<0.1	1	Pass
Cobalt	<0.05	0.05	Pass
Copper	<0.5	5	Pass
Iron	<1.0	48	Pass
Lithium	<0.1	0.6	Pass
Manganese	<0.05	0.6	Pass
Zinc	<1.0	5	Pass
Nickel	<0.01	0.02	Pass

Note: 1. Test condition and simulant were specified by client
2. The data comes from the third extraction solution

4. Specific Migration of Polycyclic Aromatic Hydrocarbons (PAHs)

- With reference to EN 13130-1:2004.
- Test condition: 10% Ethanol, 20°C for 6 hours
- Sample 004 Migration ratio: 200ml/1.20dm²

Compounds	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			004
Naphthalene	0.01	ND	ND
Acenaphthylene	0.01	ND	ND
Acenaphthene	0.01	ND	ND
Fluorene	0.01	ND	ND
Phenanthrene	0.01	ND	ND
Anthracene	0.01	ND	ND
Fluoranthene	0.01	ND	ND
Pyrene	0.01	ND	ND
Chrysene	0.01	ND	ND
Benzo[a]anthracene	0.01	ND	ND
Benzo[b]fluoranthene	0.01	ND	ND
Benzo[j]fluoranthene	0.01	ND	ND
Benzo[k]fluoranthene	0.01	ND	ND
Benzo[e]pyrene	0.01	ND	ND
Benzo[a]pyrene	0.01	ND	ND
Indeno[1,2,3-cd]pyrene	0.01	ND	ND
Dibenzo[ah]anthracene	0.01	ND	ND
Benzo[ghi]perylene	0.01	ND	ND
Conclusion			Pass

- Note:
1. Test condition and simulant were specified by client
 2. Limit was according to client's requirement

5. EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Vinyl Acetate

- Test with reference to EN 13130-1:2004.
- Test condition: 10% Ethanol, 20°C for 6 hours
- Sample 004 Migration ratio: 200ml/1.20dm²

Test Item(s)	Result(s) [mg/kg]	Method Detection Limit [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
	004			
Specific Migration of Vinyl Acetate	ND	5	12	Pass

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

6. EU-Regulation (EU) No 10/2011 and its amendments -Special Migration of Phthalates

- With reference to EN 13130-1:2004, determination by GC-MS.
- Test condition: 10% Ethanol, 20°C for 6 hours
- Sample 004 Migration ratio: 200ml/1.20dm²

Test Items	CAS No.	MDL [mg/kg]	Test Result [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
			004		
Benzylbutyl Phthalate (BBP)	85-68-7	0.5	<0.5	30	Pass
Dibutyl Phthalate (DBP)	84-74-2	0.1	<0.1	0.3	Pass
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.5	<0.5	1.5	Pass
Diisononyl Phthalate (DINP)	68515-48-0	0.5	<0.5	Total 9	Pass
Diisodecyl phthalate (DIDP)	26761-40-0	0.5	<0.5		
Adipic acid, bis(2-ethylhexyl) Ester (DEHA)	103-23-1	0.5	<0.5	18	Pass
Diallyl phthalate (DAP)	131-17-9	0.01	<0.01	0.01	Pass

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

- End of Test Report -