
Test Report

Report No. : AGC05443220550-001

SAMPLE NAME : RPET beanie set, RPET beanie
MODEL NAME : MO6651, MO6659
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Jun.09, 2022

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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,
Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : RPET beanie set, RPET beanie
Model : MO6651, MO6659
Country of Origin : CHINA
Country of Destination : EUROPE
Vendor code : 111587
Sample Received Date : May 31, 2022
Testing Period : May 31, 2022 to Jun.08, 2022

Test Requested:

Conclusion

- | | |
|--|-------------|
| 1. As specified by client, to determine the Aromatic Amines Azodyes(AZO) content in the submitted sample(s) with reference to entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 2. As specified by client, to determine the Polycyclic-aromatic hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 3. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 4. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 5. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 6. As specified by client, to determine Colour fastness to rubbing in the submitted sample(s). | Pass |

Approved by: <u>Huangguohua</u>	Approved by: <u>Jessie Liang</u>
Huangguohua	Liangdan, Jessie.Liang
Vice Laboratory Manager	Technical Director

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Jun.09, 2022	Valid	Initial release

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Test Result(s):
1. Test Result of Aromatic Amines Azodyes(AZO) Content

Test Item	CAS No.	Test Method/ Instrument	MDL	Limit
4-Aminobiphenyl	92-67-1	EN ISO 14362-1:2017/ GC-MS	5mg/kg	≤30mg/kg
Benzidine	92-87-5		5mg/kg	≤30mg/kg
4-Chloro-o-Toluidine	95-69-2		5mg/kg	≤30mg/kg
2-Naphthylamine	91-59-8		5mg/kg	≤30mg/kg
4-amino-2',3-dimethylazobenzene	97-56-3		5mg/kg	≤30mg/kg
5-Nitro-o-toluidine	99-55-8		5mg/kg	≤30mg/kg
4-Chloroaniline	106-47-8		5mg/kg	≤30mg/kg
4-Methoxy-m-phenylenediamine	615-05-4		5mg/kg	≤30mg/kg
4,4'-Diaminodiphenylmethane	101-77-9		5mg/kg	≤30mg/kg
3,3'-Dichlorobenzidine	91-94-1		5mg/kg	≤30mg/kg
3,3'-Dimethoxybenzidine	119-90-4		5mg/kg	≤30mg/kg
3,3'-Dimethylbenzidine	119-93-7		5mg/kg	≤30mg/kg
4,4'-Methylenedi-o-toluidine	838-88-0		5mg/kg	≤30mg/kg
6-methoxy-m-toluidine	120-71-8		5mg/kg	≤30mg/kg
4,4'-methylenebis[2-chloroaniline]	101-14-4		5mg/kg	≤30mg/kg
4,4'-Oxydianiline	101-80-4		5mg/kg	≤30mg/kg
4,4'-Thiodianiline	139-65-1		5mg/kg	≤30mg/kg
2-Aminotoluene	95-53-4		5mg/kg	≤30mg/kg
4-methyl-m-phenylenediamine	95-80-7		5mg/kg	≤30mg/kg
2,4,5-Trimethylaniline	137-17-7		5mg/kg	≤30mg/kg
2-Methoxyaniline	90-04-0		5mg/kg	≤30mg/kg
4-Aminoazobenzene ^a	60-09-3		5mg/kg	≤30mg/kg

Note: ^a The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to aniline and/or 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017.

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Test Item(s)	Result(s) (mg/kg)	
	1-1 [△]	1-2 [△]
4-Aminobiphenyl	N.D.	N.D.
Benzidine	N.D.	N.D.
4-Chloro-o-Toluidine	N.D.	N.D.
2-Naphthylamine	N.D.	N.D.
4-amino-2',3-dimethylazobenzene	N.D.	N.D.
5-Nitro-o-toluidine	N.D.	N.D.
4-Chloroaniline	N.D.	N.D.
4-Methoxy-m-phenylenediamine	N.D.	N.D.
4,4'-Diaminodiphenylmethane	N.D.	N.D.
3,3'-Dichlorobenzidine	N.D.	N.D.
3,3'-Dimethoxybenzidine	N.D.	N.D.
3,3'-Dimethylbenzidine	N.D.	N.D.
4,4'-Methylenedi-o-toluidine	N.D.	N.D.
6-methoxy-m-toluidine	N.D.	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.	N.D.
4,4'-Oxydianiline	N.D.	N.D.
4,4'-Thiodianiline	N.D.	N.D.
2-Aminotoluene	N.D.	N.D.
4-methyl-m-phenylenediamine	N.D.	N.D.
2,4,5-Trimethylaniline	N.D.	N.D.
2-Methoxyaniline	N.D.	N.D.
4-Aminoazobenzene	N.D.	N.D.
Conclusion	Conformity	Conformity

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2. Test Result of Polycyclic-aromatic hydrocarbons (PAHs)Content

Test Item	Test Method/ Instrument	MDL	Limit
Benzo[a]pyrene (BaP) (CAS No.: 50-32-8)	AfPS GS 2019:01 PAK/ GC-MS	0.1mg/kg	Rubber or plastic components: Single≤1mg/kg
Benzo[e]pyrene(BeP) (CAS No.: 192-97-2)		0.1mg/kg	
Benzo[a]anthracene (BaA) (CAS No.: 56-55-3)		0.1mg/kg	
Benzo[b]fluoranthene (BbF) (CAS No.: 205-99-2)		0.1mg/kg	
Benzo[j]fluoranthene(BjFA) (CAS No.: 205-82-3)		0.1mg/kg	
Benzo[k]fluoranthene (BkF) (CAS No.: 207-08-9)		0.1mg/kg	
Chrysene (CHR) (CAS No.: 218-01-9)		0.1mg/kg	
Dibenzo[a,h]anthracene (DBA) (CAS No.: 53-70-3)		0.1mg/kg	

Test Item(s)	Result(s) (mg/kg)
	1-4
Benzo[a]pyrene (BaP)	N.D.
Benzo[e]pyrene(BeP)	N.D.
Benzo[a]anthracene (BaA)	N.D.
Benzo[b]fluoranthene (BbF)	N.D.
Benzo[j]fluoranthene(BjFA)	N.D.
Benzo[k]fluoranthene (BkF)	N.D.
Chrysene (CHR)	N.D.
Dibenzo[a,h]anthracene (DBA)	N.D.
Sum of PAHs	N.D.
Conclusion	Conformity

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3. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0; 68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

Test point	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

4. Test Result of Cadmium(Cd) Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1 [△]	N.D.	Conformity
1-2 [△]	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity

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5. Test Result of Lead(Pb) Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1 [△]	N.D.	Conformity
1-2 [△]	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity

Note:

mg/kg = milligram per kilogram

N.D.=Not Detected (less than method detection limit)

MDL = Method Detection Limit

%= percentage

Remark:

- As specified by client, only test the designated sample.
- [△]=As specified by client, the submitted samples were mixed to test.

6. Test Results of Colour fastness to rubbing

Test Method: ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 20 °C, 65 %R.H., 4 hrs

The long direction of the specimen: Warp/ Weft

The percentage of soak of wet rubbing cloth: 95%~100%

Test point	Test Result		Conclusion
	Colour fastness to rubbing / (Grade)		
	Dry rubbing	Wet rubbing	
1-5	4-5	4-5	Conformity
1-6	4-5	4-5	Conformity
1-7	4-5	4-5	Conformity
1-8	4-5	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

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Note:

Colour Fastness Grade:

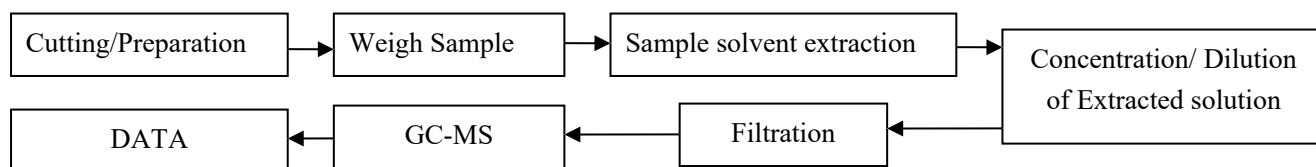
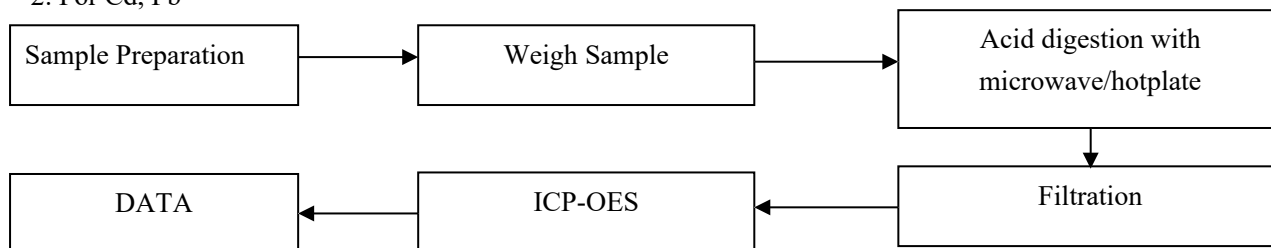
Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

Test Point Description

Test point	Test point description
1-1	Black fabric (gloves)+Grey fabric (gloves)
1-2	Black fabric (HAT)+Off white hat (HAT)
1-3	Label
1-4	Brown Leather
1-5	Black fabric (gloves)
1-6	Grey fabric (gloves)
1-7	Black fabric (HAT)
1-8	Off white hat (HAT)

Test Flow Chart
1. For AZO, PAHs, Phthalates

2. For Cd, Pb


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The photo of the sample



AGC05443220550-001

AGC authenticate the photo only on original report

*** End of Report ***

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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