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# Test Report

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Report No. : AGC05443220416-001

**SAMPLE NAME** : Acrylic beanie with 30% reflective yarn  
**MODEL NAME** : MO6615  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Apr.15, 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 : Acrylic beanie with 30% reflective yarn  
Model : MO6615  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Vendor code : 111587  
Sample Received Date : Apr.12, 2022  
Testing Period : Apr.12, 2022 to Apr.15, 2022

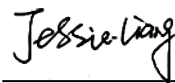
**Test Requested:****Conclusion**

- |   |             |
|---|-------------|
| 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. | <b>Pass</b> |
| 2. 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.                  | <b>Pass</b> |
| 3. 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.                     | <b>Pass</b> |
| 4. As specified by client, to determine Colour fastness to rubbing in the submitted sample(s).  | <b>Pass</b> |

Approved by: 

Huangguohua

Vice Laboratory Manager

Approved by: 

Liangdan, Jessie.Liang

Technical Director

**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 <sup>a</sup>	60-09-3	5mg/kg	≤30mg/kg	

Note: <sup>a</sup> 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.
<b>Conclusion</b>	<b>Conformity</b>	<b>Conformity</b>

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### 2. Test Result of Cadmium(Cd) Content

<b>Test Item</b>	Cadmium(Cd) (CAS No.: 7440-43-9)
<b>Limit(mg/kg)</b>	<100
<b>MDL(mg/kg)</b>	10
<b>Test Method/ Instrument</b>	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

### 3. Test Result of Lead(Pb) Content

<b>Test Item</b>	Lead(Pb) (CAS No.: 7439-92-1)
<b>Limit(mg/kg)</b>	<500
<b>MDL(mg/kg)</b>	10
<b>Test Method/ Instrument</b>	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

**Note:**

mg/kg = milligram per kilogram

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

MDL = Method Detection Limit

**Remark:**

- As specified by client, only test the designated sample.

#### 4. 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:** Endwise/ Crossrange

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

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

**Note:**

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

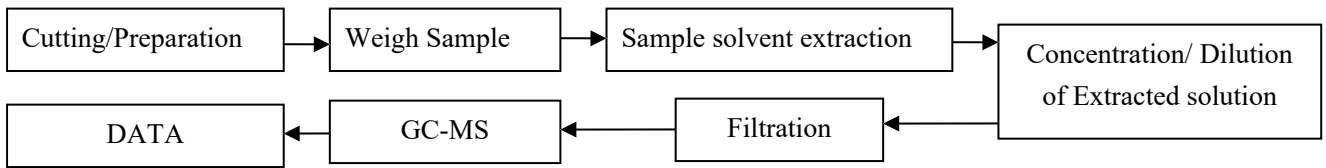
9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

#### Test Point Description

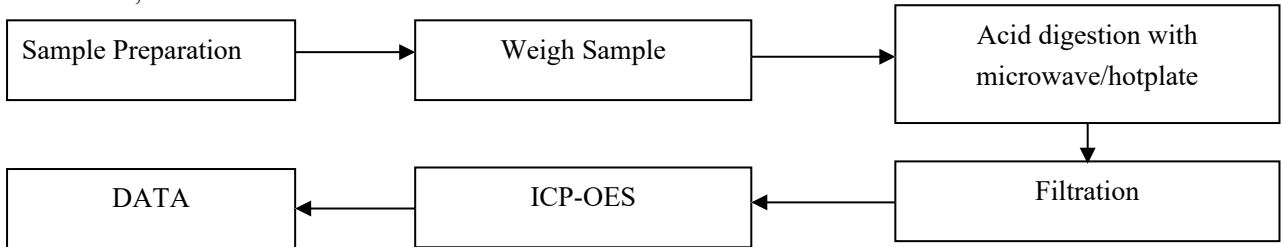
Test point	Test point description
1-1	Grey fabric
1-2	Brown microfiber

### Test Flow Chart

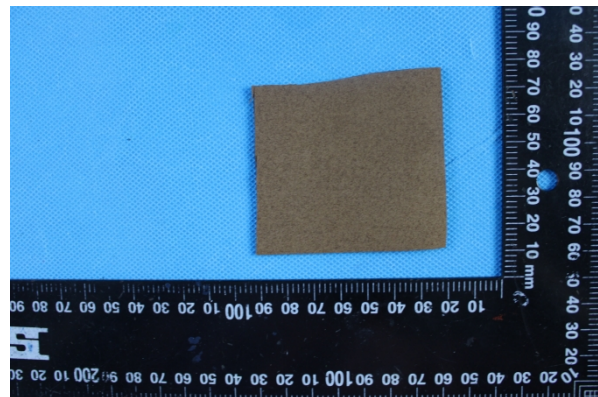
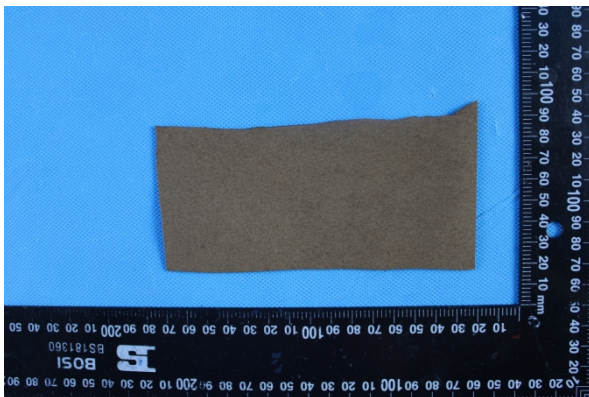
1. For AZO



2. For Cd, Pb



### The photo of the sample



**AGC05443220416-001**  
AGC authenticate the photo only on original report  
\*\*\* End of Report \*\*\*

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