

ANALYTICAL REPORT

Client Information

Mid Ocean Brands BV
Wellensiekstraat 2
Ede GLD (NETHERLANDS)

For the attention of Bernadetta Kobluk

Order Information

Order Code:	EFYL25010185
Reception Date:	17-Jan-2025
Analysis Starting Date:	17-Jan-2025
Analysis Ending Date:	24-Jan-2025
Overall Conclusion:	Pass
Decision Rule:	Shared risk - Simple acceptance. Probability of False Acceptance <50%
Sample(s) description	Socks

Additional information of the order⁽²⁾

Sample Information

ID	Sample Code	Client Reference ⁽²⁾	Additional Information ⁽²⁾
A	560-2501-00420	ITEM NUMBER: MWCS61 MANUFACTURER CODE: 119239 PRODUCT DESCRIPTION: SOCKS	

SAMPLE PICTURE



ID	Sample Code	Client Reference ⁽²⁾	Additional Information ⁽²⁾		
B	560-2501-00421	ITEM NUMEBR: MWCS69 MANUFACTURER CODE: 119239 PRODUCT DESCRIPTION: SOCKS			
COMPONENT ID		COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
B1		Grey colour	Textile	Grey	
B2		Yellow colour	Textile	Yellow	
B3		Black colour	Textile	Black	

SAMPLE PICTURE



CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Colour fastness to rubbing ISO 105-X12:2016			
A	X		
B1	X		
B2	X		
B3	X		
Determination of azo dyes EN ISO 14362-1:2017 Annex F			
A & B	X		
Lead content in non-metal products CPSC-CH-E1002-08.3			
A & B	X		

RESULTS

Colour fastness to rubbing

ISO 105-X12:2016

ID	A	Requirements:	Customer specifications	
Parameter		RESULTS		GUIDELINES
Type of finger		Cylindrical finger		
Conditioning		4h - 20 ± 2°C; 65 ± 4% H.r.		
Test temperature		20.4 °C		
Test humidity		65.1 %		
Staining on dry lengthwise		5	≥ 2-3	✓ PASS
Staining on dry crosswise		5	≥ 2-3	✓ PASS
Staining on wet lengthwise		4	≥ 2-3	✓ PASS
Staining on wet crosswise		4	≥ 2-3	✓ PASS
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 %				
			Analysis Ending Date: 24/01/2025	

ID	B1	Requirements:	Customer specifications	
Parameter		RESULTS		GUIDELINES
Type of finger		Cylindrical finger		
Conditioning		4h - 20 ± 2°C; 65 ± 4% H.r.		
Test temperature		20.4 °C		
Test humidity		65.1 %		
Staining on dry lengthwise		5	≥ 2-3	✓ PASS
Staining on dry crosswise		5	≥ 2-3	✓ PASS
Staining on wet lengthwise		4-5	≥ 2-3	✓ PASS
Staining on wet crosswise		4-5	≥ 2-3	✓ PASS
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 %				
			Analysis Ending Date: 24/01/2025	

ID	B2	Requirements:	Customer specifications	
Parameter		RESULTS		GUIDELINES
Type of finger		Cylindrical finger		
Conditioning		4h - 20 ± 2°C; 65 ± 4% H.r.		
Test temperature		20.4 °C		
Test humidity		65.1 %		
Staining on dry lenghtwise		5	≥ 2-3	✓ PASS
Staining on dry crosswise		5	≥ 2-3	✓ PASS
Staining on wet lenghtwise		5	≥ 2-3	✓ PASS
Staining on wet crosswise		5	≥ 2-3	✓ PASS
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 %				

Analysis Ending Date: 24/01/2025

ID	B3	Requirements:	Customer specifications	
Parameter		RESULTS		GUIDELINES
Type of finger		Cylindrical finger		
Conditioning		4h - 20 ± 2°C; 65 ± 4% H.r.		
Test temperature		20.4 °C		
Test humidity		65.1 %		
Staining on dry lenghtwise		5	≥ 2-3	✓ PASS
Staining on dry crosswise		5	≥ 2-3	✓ PASS
Staining on wet lenghtwise		5	≥ 2-3	✓ PASS
Staining on wet crosswise		5	≥ 2-3	✓ PASS
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 %				

Analysis Ending Date: 24/01/2025

Determination of azo dyes

EN ISO 14362-1:2017 Annex F

ID	A & B	Requirements:	REACH Regulation (EC) No 1907/2006		
Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES	
4-Aminobiphenyl	92-67-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
Benzidin	92-87-5	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
4-Chlorotoluidine	95-69-2	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
2-Naphthylamine	91-59-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
p-Chloroaniline	106-47-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
2,4-Diaminoanisole	615-05-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
4,4-Diaminodiphenylmethan	101-77-9	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
3,3-Dichlorobenzidine	91-94-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
3,3-Dimethoxybenzidine	119-90-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
3,3-Dimethylbenzidine	119-93-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
4,4-Diamino-3,3-dimethyl diphenylmethane	838-88-0	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
p-Cresidine	120-71-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
4,4-Methylene-bis-2- chloroaniline	101-14-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
4-Aminophenileter	101-80-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
4,4-Thioaniline	139-65-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
o-Toluidine	95-53-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
2,4-Diaminotoluene	95-80-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
2,4,5-Trimethylaniline	137-17-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
o-Anisidine	90-04-0	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
2,4-Xylidine	95-68-1	<5 mg/kg	5		
2,6-Xylidine	87-62-7	<5 mg/kg	5		
Aniline*	62-53-3	<5 mg/kg	5		

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ID	A & B	Requirements:	REACH Regulation (EC) No 1907/2006		
Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES	
1-4-phenylenediamine*	106-50-3	<5 mg/kg	5		
4-Chloro-o-toluidinium chloride *	3165-93-3	<5 mg/kg	5	REACH : < 30 mg/kg	✓
2-Naphthylammoniumacetate *	553-00-4	<5 mg/kg	5	PASS	
4-Methoxy-m-phenylene Diammonium Sulphate *	39156-41-7	<5 mg/kg	5	REACH : < 30 mg/kg	✓
2,4,5-Trimethylaniline hydrochloride *	21436-97-5	<5 mg/kg	5	PASS	
Remarks: Analytical method technique: GC/MS Sampling procedure: Section 9 EN 14362-1:2017 Evaluation Procedure - Point 10.2 (EN ISO 14362-1:2017) *Parameters not covered by the accreditation scope o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene. Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenylenediamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN ISO 14362-3. Conclusion: Amines o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene. Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenylenediamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3.					
			Analysis Ending Date: 23/01/2025		

Lead content in non-metal products

CPSC-CH-E1002-08.3

ID	A & B	Requirements:	REACH Regulation (EC) No 1907/2006		
Parameter		CAS No.	RESULTS	LOQ.	GUIDELINES
Lead (Pb)		7439-92-1	<0.0005 %	0.0005	REACH: <0.05 % ✔ PASS
Remarks: Analytical method technique: ICP-MS					
				Analysis Ending Date: 22/01/2025	

Signed for and on behalf of Eurofins Textile Testing Spain:
Report electronically validated by



Axel Ferrando
Physical-Mechanical Lab Manager

EXPLANATORY NOTE

- ◆ Test not covered by ENAC accreditation scope
 - Test is subcontracted within Eurofins group and is accredited
 - Test is subcontracted within Eurofins group and is not accredited
 - Test is subcontracted outside Eurofins group and is accredited
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- N/A = Not Applicable

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Test uncertainties not reported are at customer disposal , for those tests in which it is possible to evaluate the test uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, which for a normal distribution provides a level of confidence of approximately 95%.

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End Of Report