

# Test Report

No. TAOCHEM1905053101

Date: 06 Nov 2019

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GOHANDMADE-DSIGN INTERNATIONAL A/S DENMARK  
 MADEVEJ 11-13,6200 AABENRAA,DENMARK

The following sample(s) was/were submitted and identified on behalf of the clients as : POLYESTER FILLING

SGS Job No. : TJHL1910005823OT - TJ  
 Buyer : GOHANDMADE-DSIGN INTERNATIONAL A/S  
 Country of Origin : China  
 Country of Destination : Denmark  
 Date of Sample Received : 04 Nov 2019  
 Testing Period : 04 Nov 2019 - 06 Nov 2019  
 Test Requested : Selected test(s) as requested by client.  
 Test Method : Please refer to next page(s).  
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Azo Dyes	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.



Wang Bo, Claire  
 Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO19-050531.001	White polyester fiber

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006**  
**-Azo Dyes**

Test Method : Textile: According to ISO 14362-1:2017 - Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	Result	
				Direct reduction <sup>+</sup>	Colorant extraction <sup>+</sup>
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
2-Naphthylamine	91-59-8	mg/kg	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
4-Aminodiphenyl	92-67-1	mg/kg	5	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>Result</u>	
				<u>001</u>	
4-Chloroaniline	106-47-8	mg/kg	5	ND	ND
4-Chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
o-Aminoazotoluene	97-56-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
o-Toluidine	95-53-4	mg/kg	5	ND	ND
p-Cresidine	120-71-8	mg/kg	5	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>

Notes :

- Recommended Max. Limit: 30 mg/kg
- \* Direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses.  
Colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.
- The ISO 14362-1:2017 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.
- Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).
- Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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- In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylene-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

Sample photo:



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\*\*\* End of Report \*\*\*



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