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BANGLADESH

Hohenstein Laboratories Bangladesh Limited

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Textile Testing
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Business process	Contact person	Our ref.	Date
23.1076478	Uddin, S.M. Imam	FAH	23.12.2023

Report no. 23.0.04778

Client:	Jaantex Industries Limited
Contact person:	Mr Khurshid Khan Phone: +880 1611133263
Date of order:	20.12.2023
Receipt of order:	20.12.2023
Receipt of material:	20.12.2023
Order no. / Supplier :	/Jaantex Industries Limited
Producer:	Jaantex Industries Limited, Bangladesh
Buyer name:	Spark Solutions Ltd. (self-reference)
Test sample:	PP (Bio-Flex), Style No: Poly, Colour: Grey
Information (sample / order):	<u>Information according to label (sample):</u> Not available
Period of testing:	20.12.2023 to 23.12.2023
Aim of test(s):	1. Beilstein test (PVC identification) 2. Total content of cadmium and lead 3 Formaldehyde content 4. Extractable Heavy Metals

The test will be performed according to the information of the order. We will contact you in case of any obscurities or questions.

Note: The test sample has been delivered to us by client

The report comprises 5 pages.

Our terms of business shall apply:
<https://www.hohenstein.com.bd/en-bd/gtcb>

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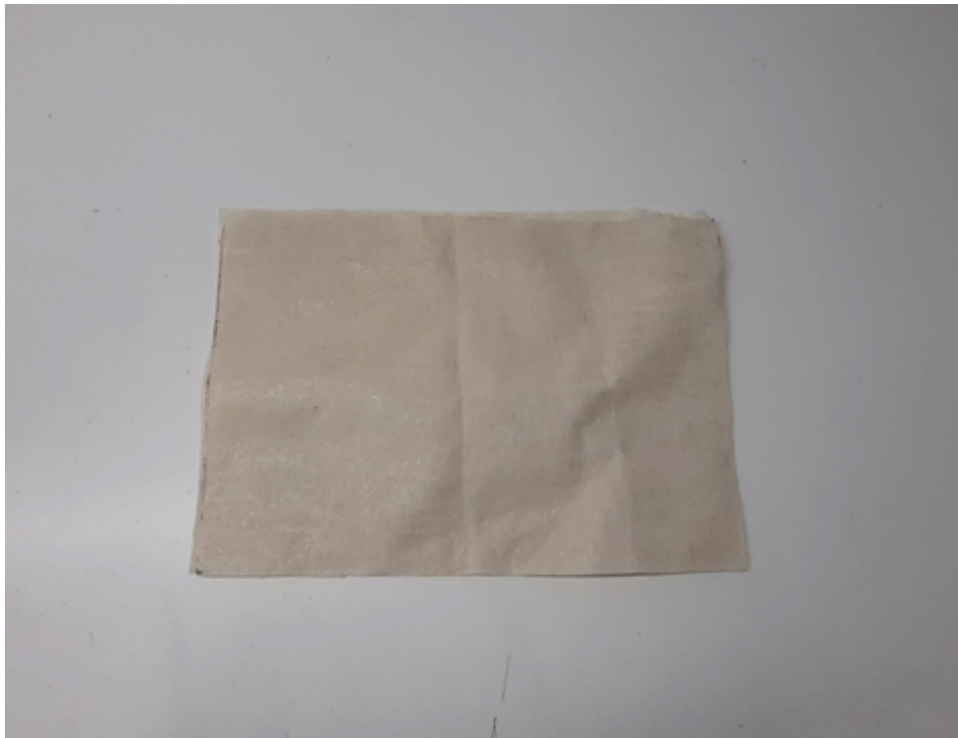
Note: (1) The results relate only to the items tested. (2) The test report shall not be reproduced except in full without the written approval of the laboratory. (3) Samples are tested as received. (4) The report covers material testing on specified samples. (5) The tested materials covered by the report were declared by the manufacturer to be used on the models listed in the annex of the report.

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Materials which have to be tested:

Sample	
1	bio-flex, grey

Visual documentation of test sample:



RESULT

Determination of free and partially releasable formaldehyde in textiles

Method:

Aqueous extraction; Determination using photometry (ISO 14184-1:2011-12^A)

Test result:

Sample	Free and partially releasable formaldehyde in mg/kg
1 bio-flex, grey	n.d.
Limit of quantitation	10 mg/kg
Note	n.d. = not determinable

Testing for halogen-containing materials (Beilstein Test)

A carefully annealed copper wire was provided with a specimen of the test sample and positioned in the not shiny flame part of a Bunsen burner. If halogens containing substances are present the flame shows a green-blue coloration (AW-QM-11.0.03.082 2013-05^A).

Test result:

Sample	Beilstein-Test
1 bio-flex, grey	negative
Note: A positive test result gives an indication of PVC-containing material	

Determination of the total content of cadmium and lead in textiles

Method:

Micro wave decomposition; Determination using ICP/MS or AAS (EN 16711-1: 2016-02^A; Modification: numbers of analytes to be determined and DIN 17294-2 (E29): 2017-01^A)

Test result:

Sample	Total content in mg/kg	
	Cadmium	Lead
1 bio-flex, grey	< 5	< 5
Note	Result given with „<“ corresponds to the limit of quantitation	

Determination of extractable heavy metals in textiles

Method:

Extraction with artificial acid perspiration solution; Determination using ICP-MS or AAS (EN 16711-2: 2016-02^A and ISO 17294-2 2017-01^A)

Test result:

Sample	Heavy metals in mg/kg		
	Arsenic	Cadmium	Lead
1 bio-flex, grey	< 0,10	< 0,05	< 0,10
Limit of quantitation	0,1 mg/kg	0,05 mg/kg	0,1 mg/kg
Note	„<“ = below limit of quantitation		

CONCLUSION

The material tested do not have conclusion due to no client requirements.

Dhaka, Bangladesh, 23.12.2023

Head of Textile & Chemical Testing



Johnny Yasmin Kanta



Expert for Customer Service



Faruk Ahmed

Please contact for any complaint: bd_customerhelp@hohenstein.com

The results relate only to the samples examined. The measurement uncertainty of the method is already considered while determining limit values, unless otherwise noted. This report must only be reproduced in full and not in extract form. Use of the report in advertising or the publication of free interpretations of the results is only allowed with the express permission of Hohenstein. Only the authorized report is legally binding.

The accreditation applies for the methods listed in the annex to the certificate (accreditations see www.hohenstein.de/de/about_hohenstein/accreditation/accreditation.html) – marked A in the report.