HOHENSTEIN

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Jaantex Industries 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

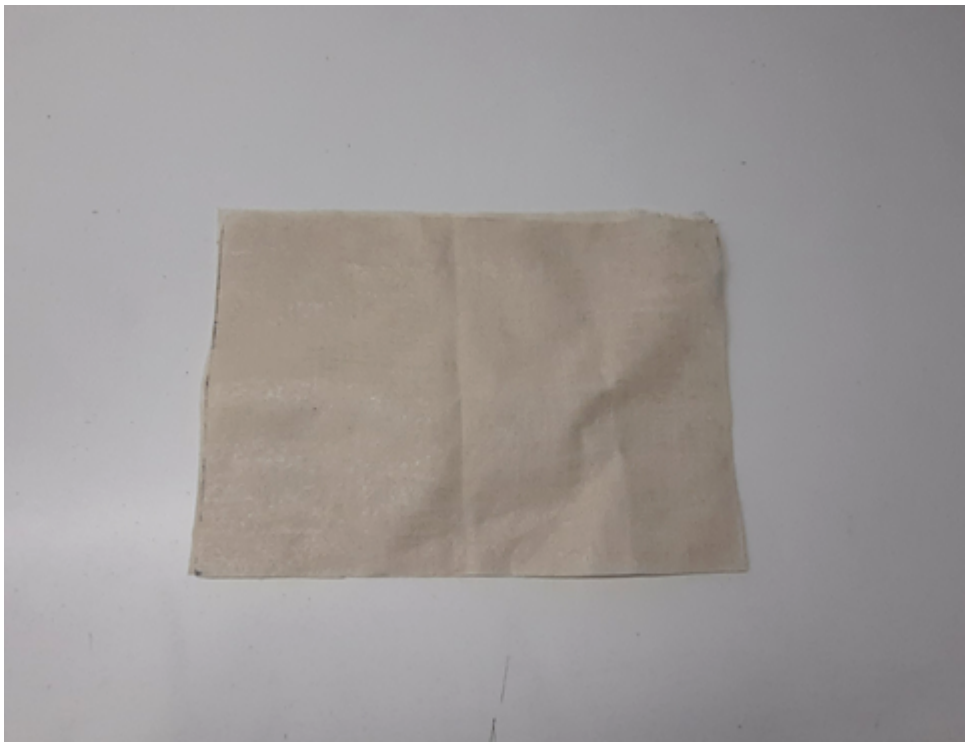
Client:	Jaantex Industries Limited
Contact person:	Mr Khurshid Khan Phone: +880 1611133263
Date of order:	20.12.2023
Receipt of order:	20.12.2023
Receipt of material:	20.12.2023
Order no. / Supplier :	/Jaantex Industries Limited
Producer:	Jaantex Industries Limited, Bangladesh
Buyer name:	Spark Solutions Ltd. (self-reference)
Test sample:	PP (Bio-Flex), Style No: Poly, Colour: Grey
Information (sample / order):	Information according to label (sample): Not available
Period of testing:	20.12.2023 to 23.12.2023
Aim of test(s):	1. Beilstein test (PVC idetification) 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.

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		

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CONCLUSION

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

Dhaka, Bangladesh, 23.12.2023

Head of Textile & Chemical Testing

Johny Yasmin Kanta

Hohenstein Laboratories Bangladesh Limited. Dhaka, Bangladesh

Expert for Customer Service

Faruk Ahmed

Please contact for any complaint: bd_customerhelp@hohenstein.com