

Test report n°: **20LA07542** of **22/06/2020**

Dear
Spandex Ltd
1600 Park Avenue Aztec West
BS32 4UA Bristol ()

Acceptance Data

Subject of the test: **Polymers**

Transport: **Customer**

Date of arrival: **22/05/2020** Time of arrival: **14.04**

Acceptance date: **22/05/2020**

Sample data

Description: **ImagePerfect, SafeTouch**

Sampling data

Sampling by: **Customer**

Place: **Customer location**

The analytical results are exclusively referred to the sample.

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Laboratory management system certified UNI EN ISO 9001: 2015 by CSQA with the No. 14270. Recommended by AIC for the analysis of quantification of gluten in food matrices. Registered laboratory for the analysis of food contact materials intended for export to Japan.

Laboratory registered in the list of regional laboratories carrying out analysis in the context of self-control procedures for Food Industries No. 52. It is the responsibility of the OSA to communicate the warnings to the bodies in charge

Mod.PT01.01 Rev.9

Test report n°: **20LA07542** of **22/06/2020**

Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 5.2	0,3		25/05/2020 27/05/2020
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.999	50		25/05/2020 27/05/2020
Size of test specimens (H x L)	mm	50x50			25/05/2020 27/05/2020
Thickness of test specimens	mm	0,1			25/05/2020 27/05/2020
Type of polymer used for the cover film		Polypropylene			25/05/2020 27/05/2020
Size of the cover film (H x L)	mm	40x40			25/05/2020 27/05/2020
Thickness of the cover film	mm	0,10			25/05/2020 27/05/2020
Type of Gram-negative strain		Escherichia coli ATCC 8739			25/05/2020 27/05/2020
Method of conditioning		UV-C radiation (30 min per side)			25/05/2020 27/05/2020
Reference used		Inert Internal material			25/05/2020 27/05/2020
Volume of test inoculum	ml	0,4			25/05/2020 27/05/2020
Number of viable bacteria in the test inoculum	n°	200000			25/05/2020 27/05/2020
Uo - N° of viable bacteria recovered from the untreated test specimens after inoculation	log	4,1	0,4		25/05/2020 27/05/2020
Ut - N° of viable bacteria recovered from the untreated test specimens after 24 h	log	5,2	0,4		25/05/2020 27/05/2020
At - Count bacteria recovered from the treated samples 24 hours post inoculation	log	NQ	0,4		25/05/2020 27/05/2020

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LEGEND: **U.M.** = Unit of measurement; **(Sup)** = upper limit; **(Inf)** = Lower Limit ; **LoQ** = limit of quantification, it is the lower limit of concentration above which it is possible to obtain a quantitative measurement instrumentally; in microbiology the LoQ is of a theoretical nature; **LoD** = limit of detectability, is the lower limit of concentration below which the sample cannot be detected; in qualitative analyzes it represents the minimum concentration at which an analyte can be determined or not; **NQ** = unquantifiable, indicates a value less than LoQ; **NR** = not detectable, indicates a value lower than LoD; "**<x**" or "**>x**" respectively indicate a value lower or higher than the measuring range of the test, where x is the result

(S): Indicates a change from the previous version of the Test Report.

(le): Indicates that the parameters/activities are performed in subcontracting.

UNLESS OTHERWISE SPECIFIED: Quantitative microbiological tests are performed on single replica and two consecutive dilutions in accordance with UNI EN ISO 7218: 2013 (with the exception of the analysis of water and MPN); the results of this test report are not corrected for recovery factors (R) as the values of recovery are in the tolerance

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Mod.PT01.01 Rev.9

Test report n°: **20LA07542** of **22/06/2020**

specified in the test method; summations are calculated using the criterion of the lower bound (LB)

(*): Test/activity not accredited by ACCREDIA

Technical Director

Dr. Giovanni Mitaritonna
Chemist

Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

----- End of Test Report -----

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Mod.PT01.01 Rev.9

Test report n°: **20LA07543** of **22/06/2020**

Dear
Spandex Ltd
1600 Park Avenue Aztec West
BS32 4UA Bristol ()

Acceptance Data

Subject of the test: **Polymers**

Transport: **Customer**

Date of arrival: **22/05/2020** Time of arrival: **14.04**

Acceptance date: **22/05/2020**

Sample data

Description: **ImagePerfect, SafeTouch**

Sampling data

Sampling by: **Customer**

Place: **Customer location**

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Mod.PT01.01 Rev.9

Test report n°: **20LA07543** of **22/06/2020**

Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 4.7	0,3		26/05/2020 28/05/2020
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.998	50		26/05/2020 28/05/2020
Size of test specimens (H x L)	mm	50x50			26/05/2020 28/05/2020
Thickness of test specimens	mm	0,1			26/05/2020 28/05/2020
Type of polymer used for the cover film		Polypropylene			26/05/2020 28/05/2020
Size of the cover film (H x L)	mm	40x40			26/05/2020 28/05/2020
Thickness of the cover film	mm	0,10			26/05/2020 28/05/2020
Type of Gram-positive strain		Staphylococcus aureus - ATCC 6538			26/05/2020 28/05/2020
Method of conditioning		UV-C radiation (30 min per side)			26/05/2020 28/05/2020
Reference used		Inert Internal material			26/05/2020 28/05/2020
Volume of test inoculum	ml	0,4			26/05/2020 28/05/2020
Number of viable bacteria in the test inoculum	n°	130000			26/05/2020 28/05/2020
Uo - N° of viable bacteria recovered from the untreated test specimens after inoculation	log	3,9	0,4		26/05/2020 28/05/2020
Ut - N° of viable bacteria recovered from the untreated test specimens after 24 h	log	4,7	0,4		26/05/2020 28/05/2020
At - Count bacteria recovered from the treated samples 24 hours post inoculation	log	NQ	0,4		26/05/2020 28/05/2020

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Mod.PT01.01 Rev.9

Test report n°: **20LA07543** of **22/06/2020**

specified in the test method; summations are calculated using the criterion of the lower bound (LB)

(*): Test/activity not accredited by ACCREDIA

Technical Director

Dr. Giovanni Mitaritonna
Chemist

Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

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Mod.PT01.01 Rev.9

Test report n°: **20LA07544** of **22/06/2020**

Dear
Spandex Ltd
1600 Park Avenue Aztec West
BS32 4UA Bristol ()

Acceptance Data

Subject of the test: **Polymers**

Transport: **Customer**

Date of arrival: **22/05/2020** Time of arrival: **14.04**

Acceptance date: **22/05/2020**

Sample data

Description: **ImagePerfect, SafeTouch**

Sampling data

Sampling by: **Customer**

Place: **Customer location**

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Mod.PT01.01 Rev.9

Test report n°: **20LA07544** of **22/06/2020**

Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 4.2	0,3		03/06/2020 08/06/2020
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.994	50		03/06/2020 08/06/2020
Size of test specimens (H x L)	mm	50x50			03/06/2020 08/06/2020
Thickness of test specimens	mm	0,1			03/06/2020 08/06/2020
Type of polymer used for the cover film		Polypropylene			03/06/2020 08/06/2020
Size of the cover film (H x L)	mm	40x40			03/06/2020 08/06/2020
Thickness of the cover film	mm	0,10			03/06/2020 08/06/2020
Type of Gram-positive strain		Staphylococcus aureus Methicillin resistant - ATCC 33591			03/06/2020 08/06/2020
Method of conditioning		UV-C radiation (30 min per side)			03/06/2020 08/06/2020
Reference used		Inert Internal material			03/06/2020 08/06/2020
Volume of test inoculum	ml	0,4			03/06/2020 08/06/2020
Number of viable bacteria in the test inoculum	n°	270000			03/06/2020 08/06/2020
Uo - N° of viable bacteria recovered from the untreated test specimens after inoculation	log	4,2	0,4		03/06/2020 08/06/2020
Ut - N° of viable bacteria recovered from the untreated test specimens after 24 h	log	4,2	0,4		03/06/2020 08/06/2020
At - Count bacteria recovered from the treated samples 24 hours post inoculation	log	NQ	0,4		03/06/2020 08/06/2020

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Mod.PT01.01 Rev.9

Test report n°: **20LA07544** of **22/06/2020**

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(*): Test/activity not accredited by ACCREDIA

Technical Director

Dr. Giovanni Mitaritonna
Chemist

Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

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Mod.PT01.01 Rev.9

Test report n°: **20LA07537** of **22/06/2020**

Dear
Spandex Ltd
1600 Park Avenue Aztec West
BS32 4UA Bristol ()

Acceptance Data

Subject of the test: **Polymers**

Transport: **Customer**

Date of arrival: **22/05/2020** Time of arrival: **17.22**

Acceptance date: **22/05/2020**

Sample data

Description: **ImagePerfect, SafeTouch**

Sampling data

Sampling by: **Customer**

Place: **Customer location**

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Mod.PT01.01 Rev.9

Test report n°: **20LA07537** of **22/06/2020**

Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 3.8	0,3		09/06/2020 12/06/2020
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.984	50		09/06/2020 12/06/2020
Size of test specimens (H x L)	mm	50x50			09/06/2020 12/06/2020
Thickness of test specimens	mm	0,1			09/06/2020 12/06/2020
Type of polymer used for the cover film		Polypropylene			09/06/2020 12/06/2020
Size of the cover film (H x L)	mm	40x40			09/06/2020 12/06/2020
Thickness of the cover film	mm	0,10			09/06/2020 12/06/2020
Type of Gram-negative strain		Salmonella enterica - ATCC 14028			09/06/2020 12/06/2020
Method of conditioning		UV-C radiation (30 min per side)			09/06/2020 12/06/2020
Reference used		Inert Internal material			09/06/2020 12/06/2020
Volume of test inoculum	ml	0,4			09/06/2020 12/06/2020
Number of viable bacteria in the test inoculum	n°	98000			09/06/2020 12/06/2020
Uo - N° of viable bacteria recovered from the untreated test specimens after inoculation	log	3,8	0,4		09/06/2020 12/06/2020
Ut - N° of viable bacteria recovered from the untreated test specimens after 24 h	log	3,8	0,4		09/06/2020 12/06/2020
At - Count bacteria recovered from the treated samples 24 hours post inoculation	log	NQ	0,4		09/06/2020 12/06/2020

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Mod.PT01.01 Rev.9

Test report n°: **20LA07537** of **22/06/2020**

specified in the test method; summations are calculated using the criterion of the lower bound (LB)

(*): Test/activity not accredited by ACCREDIA

Technical Director

Dr. Giovanni Mitaritonna
Chemist

Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

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Mod.PT01.01 Rev.9

Test report n°: **20LA07539** of **22/06/2020**

Dear
Spandex Ltd
1600 Park Avenue Aztec West
BS32 4UA Bristol ()

Acceptance Data

Subject of the test: **Polymers**

Transport: **Customer**

Date of arrival: **22/05/2020** Time of arrival: **14.03**

Acceptance date: **22/05/2020**

Sample data

Description: **ImagePerfect, SafeTouch**

Sampling data

Sampling by: **Customer**

Place: **Customer location**

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Mod.PT01.01 Rev.9

Test report n°: **20LA07539** of **22/06/2020**

Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 4.8	0,3		10/06/2020 12/06/2020
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.998	50		10/06/2020 12/06/2020
Size of test specimens (H x L)	mm	50x50			10/06/2020 12/06/2020
Thickness of test specimens	mm	0,1			10/06/2020 12/06/2020
Type of polymer used for the cover film		Polypropylene			10/06/2020 12/06/2020
Size of the cover film (H x L)	mm	40x40			10/06/2020 12/06/2020
Thickness of the cover film	mm	0,10			10/06/2020 12/06/2020
Type of Gram-positive strain		Listeria monocytogenes - ATCC 13932			10/06/2020 12/06/2020
Method of conditioning		UV-C radiation (30 min per side)			10/06/2020 12/06/2020
Reference used		Inert Internal material			10/06/2020 12/06/2020
Volume of test inoculum	ml	0,4			10/06/2020 12/06/2020
Number of viable bacteria in the test inoculum	n°	250000			10/06/2020 12/06/2020
Uo - N° of viable bacteria recovered from the untreated test specimens after inoculation	log	4,2	0,4		10/06/2020 12/06/2020
Ut - N° of viable bacteria recovered from the untreated test specimens after 24 h	log	4,8	0,4		10/06/2020 12/06/2020
At - Count bacteria recovered from the treated samples 24 hours post inoculation	log	NQ	0,4		10/06/2020 12/06/2020

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Test report n°: **20LA07539** of **22/06/2020**

2013 (with the exception of the analysis of water and MPN); the results of this test report are not corrected for recovery factors (R) as the values of recovery are in the tolerance specified in the test method; summations are calculated using the criterion of the lower bound (LB)

(*): Test/activity not accredited by ACCREDIA

Technical Director

Dr. Giovanni Mitaritonna
Chemist

Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

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Laboratory management system certified UNI EN ISO 9001: 2015 by CSQA with the No. 14270. Recommended by AIC for the analysis of quantification of gluten in food matrices. Registered laboratory for the analysis of food contact materials intended for export to Japan.

Laboratory registered in the list of regional laboratories carrying out analysis in the context of self-control procedures for Food Industries No. 52. It is the responsibility of the OSA to communicate the warnings to the bodies in charge

Mod.PT01.01 Rev.9

Test report n°: **20LA07538** of **23/06/2020**

Dear
Spandex Ltd
1600 Park Avenue Aztec West
BS32 4UA Bristol ()

Acceptance Data

Subject of the test: **Polymers**

Transport: **Customer**

Date of arrival: **22/05/2020** Time of arrival: **14.02**

Acceptance date: **22/05/2020**

Sample data

Description: **ImagePerfect, SafeTouch**

Sampling data

Sampling by: **Customer**

Place: **Customer location**

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Parameter - Specification <i>Method - Notes</i>	M.U.	Results Notes	LoQ	LoD	Test start Test end
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 3.9	0,3		05/06/2020 09/06/2020
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.987	50		05/06/2020 09/06/2020
Size of test specimens (H x L)	mm	50x50			05/06/2020 09/06/2020
Thickness of test specimens	mm	1,0			05/06/2020 09/06/2020
Type of polymer used for the cover film		Polypropylene			05/06/2020 09/06/2020
Size of the cover film (H x L)	mm	40x40			05/06/2020 09/06/2020
Thickness of the cover film	mm	0,10			05/06/2020 09/06/2020
Type of Gram-positive strain		Enterococcus faecalis - ATCC 29212			05/06/2020 09/06/2020
Method of conditioning		UV-C radiation (30 min per side)			05/06/2020 09/06/2020
Reference used		Inert Internal material			05/06/2020 09/06/2020
Volume of test inoculum	ml	0,4			05/06/2020 09/06/2020
Number of viable bacteria in the test inoculum	n°	99000			05/06/2020 09/06/2020
Uo - N° of viable bacteria recovered from the untreated test specimens after inoculation	log	3,8	0,4		05/06/2020 09/06/2020
Ut - N° of viable bacteria recovered from the untreated test specimens after 24 h	log	3,9	0,4		05/06/2020 09/06/2020
At - Count bacteria recovered from the treated samples 24 hours post inoculation	log	NQ	0,4		05/06/2020 09/06/2020

If the sampling is not the responsibility of 3ALaboratori srl, the latter declines all responsibility with regard to sampling information as provided by the Customer; the test results refer only to the sample as received. When these data include measurements that affect the measurement unit, the results expressed are obtained by processing them. The Acceptance Data is the responsibility of the Laboratory while the sample data are the responsibility of the Customer. If the sample is not suitable but the Customer chooses to continue anyway, the laboratory declines all responsibility for the results that could be influenced by the deviation

LEGEND: **U.M.** = Unit of measurement; **(Sup)** = upper limit; **(Inf)** = Lower Limit ; **LoQ** = limit of quantification, it is the lower limit of concentration above which it is possible to obtain a quantitative measurement instrumentally; in microbiology the LoQ is of a theoretical nature; **LoD** = limit of detectability, is the lower limit of concentration below which the sample cannot be detected; in qualitative analyzes it represents the minimum concentration at which an analyte can be determined or not; **NQ** = unquantifiable, indicates a value less than LoQ; **NR** = not detectable, indicates a value lower than LoD; "<x" or ">x" respectively indicate a value lower or higher than the measuring range of the test, where x is the result

(S): Indicates a change from the previous version of the Test Report.

(le): Indicates that the parameters/activities are performed in subcontracting.

UNLESS OTHERWISE SPECIFIED: Quantitative microbiological tests are performed on single replica and two consecutive dilutions in accordance with UNI EN ISO 7218:

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2013 (with the exception of the analysis of water and MPN); the results of this test report are not corrected for recovery factors (R) as the values of recovery are in the tolerance specified in the test method; summations are calculated using the criterion of the lower bound (LB)

(*): Test/activity not accredited by ACCREDIA

Technical Director

Dr. Giovanni Mitaritonna
Chemist

Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

----- End of Test Report -----

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