



## RAPPORTO DI PROVA / TEST REPORT

**NUMBER**

0958\FPM\FOOD\23

**ISSUE DATE**

22/09/2023

**BUSINESS AREA**

BA Food Packaging Materials

**LABORATORY**

Food

**SPECIMEN DESCRIPTION**

Samples named "Life-Blend"

*(English translation – ref. Test report 0680\_FPM\_FOOD\_23\_1)*

**CUSTOMER**

STYLA S.r.l.  
VIA ENRICO FERMI, 52/O  
24035 CURNO (BG)

**REFERENCE STANDARD**

ASTM G21

**GENERALITIES**

- Sample receiving date: 28/06/2023
- Analysis start date: 14/07/2023
- Analysis end date: 16/08/2023
- Laboratory site: Viale Lombardia, 20/B – 20021 Bollate (MI)
- Test site: Viale Lombardia, 20/B – 20021 Bollate (MI)
- Deviation from test methods: NO

**SAMPLE DESCRIPTION**

- Samples named “Life-Blend”

**SAMPLING AND PICKING**

The sampling for the test has been done drawing casually part of the sample in our possession. Sampling was carried out according to the following procedures.

**Subject that performed the sampling**

**Sampling report**

Notified Body

TAB

CSI-CERT

Customer

Other

Reference number  
Date of issue

Reference number  
Date of issue

Reference number  
Date of issue

Reference number  
Date of issue

Reference number  
Date of issue

-	-

Transport carried out by:  CSI Technician  Courier  Customer

**DECLARATION**

The test results of the present report are related exclusively to the tested sample, as received. The data relating to the sample are provided by the customer and not verified by the laboratory, unless expressly indicated. The laboratory declines all responsibility. The present test report cannot be partially reproduced without the authorization of laboratory managing

Director.

The uncertainties are estimated as extended uncertainty obtained multiplying the standard uncertainty by the coverage factor *k* corresponding to a confidence level of about 95%. Normally, this factor = 2. In all cases of declarations of conformity, the compliance will be evaluated by adding the extended uncertainty to the obtained value (except different occurrences that, in case, will be properly described).

**PERFORMED DETERMINATIONS**

**RESISTANCE TO MOLD ACCORDING TO ASTM G21-15**

The test was carried out in compliance with the aforementioned standard ASTM G21-15 “Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi”, using pools of the following fungal strains:

- *Aspergillus niger* ATCC 9642,
- *Chaetomium globosum* ATCC 16021,
- *Penicillium funiculosus* ATCC 9644,
- *Paecilomyces variotii* ATCC 16023,
- *Gliocadium virens* ATCC 10043.

The mixed suspension of spores has shown to be perfectly capable of giving rise to copious growth, under the conditions imposed by the method.

Of the sample delivered, two series of three specimens were tested; one for *recto* and the other for *verso*.

Using the same methods, two series of three specimens were prepared, one for *recto* and the other for *verso*, not inoculated with the spore suspension, on which to possibly evaluate the possibility of growth and/or attack by stems fungi already present on the materials.

The incubation of the specimens - inoculated and not - as well as of the controls, was continued for up to 28 days (standard incubation time) at a temperature between +28 and +30 °C in conditions of 85% relative humidity, with periodic checks of the possible proliferation.

Results are expressed as visible growth.

Interpretation of results

<b>Growth observed on samples: (with / sporification, without / sporification or both)</b>	<b>Score</b>
None	<b>0</b>
Traces of growth (<10% of the surface)	<b>1</b>
Slight growth (from 10 to 30% of the surface)	<b>2</b>
Average growth (30 to 60% of the surface)	<b>3</b>
Consistent growth (from 60 to 100% of the surface)	<b>4</b>

**RESULTS**

The following table reports the score obtained from the INOCULATED sample:

Sample	Recto	Verso
Samples named "Life-Blend"	2	2
CTR + spores	4	4

The following table reports the score obtained from the NOT INOCULATED sample:

Sample	Recto	Verso
Samples named "Life-Blend"	0	0

**OPINIONS AND INTERPRETATIONS**

From the analyzes carried out according to ASTM G21-15, it appears that the sample tested named "Life-Blend" partially counteracts fungal growth, but is not able to completely inhibit the proliferation of mold.

On both sides of the sample, a growth of fungal felt was observed which can be estimated as Slight growth (from 10 to 30% of the surface).

**DATA**  
**Date**

22/09/2023

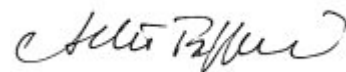
**Operating Sector Food**

**Federica Chiappa**



**BA Food Packaging Materials**

**Alberto Taffurelli**



*The document is digitally signed in accordance with Legislative Decree n. 82/2005 as amended and replaces the paper document and the handwritten signature and it's valid from the date of affixing the digital signature.*