



# Test Report

## Revised Report

Report No.: 100103764B  
Project No.: 10303580.1  
Date: May 5, 2014  
Trace Code: A14.0362

**Client:** POLIBLEND SPA  
Via Piccinelli 12  
Mozzate, Co 22076  
Italy

**Attention:** Stefano Bertolini

**Authorization:** Quote Number 1100060494

**Samples Received:** (04/16/2014)

- Polimid A SG Naturale FD
- Polimid B AV Naturale FD
- Polimid A 30 GF Naturale FD
- Polimid B 30 GF Naturale FD

**Analysis Requested:** Extraction Studies done in accordance with FDA 21 CFR §177.1500

**Analysis Performed On:** April 22, 2014 through April 30, 2014

**Results and Discussion:**

Extraction studies were performed on the submitted samples in accordance with FDA 21 CFR §177.1500, Nylon Resins. Approximately 30 grams of material was extracted at reflux temperature for eight hours using purified water, 95% ethyl alcohol, ethyl acetate and benzene. The extract was filtered while hot and evaporated to dryness. The amount of residue in percent by weight was then determined. The samples were analyzed in duplicate. The results of these analyses are found on the attached tables.

***The submitted samples, Polimid A SG Naturale FD, Polimid B AV Naturale FD, Polimid A 30 GF Naturale FD, and Polimid B 30 GF Naturale FD, meet the specification found in FDA 21 CFR §177.1500 for purified water, 95% ethyl alcohol, ethyl acetate, and benzene.***

Report revised due to client request for use of commercial name.

Please contact us if you have any questions regarding these results or if you require additional information.

Joanne M. Deskus  
VS Senior Chemist  
Analytical Chemistry

Judith V. Haber  
Senior Laboratory Operations Manager  
Analytical Chemistry

LETTERS & REPORTS: UL Verification Services, Inc. (UL) letters and reports are issued for the exclusive use of the clients to whom they are addressed. No quotations from reports or use of the UL name is permitted except as expressly authorized in writing. Letters and reports apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. The liability of UL with respect to services rendered shall be limited to the amount of consideration paid for such service and not include any consequential damages. This report or certificate does not relieve sellers/suppliers from their contractual responsibility with regard to the quality/quantity of this delivery, nor does it prejudice clients' right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during our random inspection or testing. UL has not performed a complete analysis of the product. The results contained in this report indicate that the product has passed or failed the specific tests only. These test results, even if rated as "Passed," do not indicate or certify that the product is safe for commercial or consumer use.

UL Verification Services, Inc., 1559 King Street, Enfield, CT 06082 USA  
Phone: (860) 749-8371 | Fax: (860) 749-0196 | Email: QAINFO@UL.COM | Website: [www.ul.com/consumer-products](http://www.ul.com/consumer-products)

Your satisfaction is very important to us; please participate in the following client satisfaction survey by visiting: [www.ul.com/customers](http://www.ul.com/customers)



# Test Report

## Revised Report

Report No.: 100103764B  
 Project No.: 10303580.1  
 Date: May 5, 2014  
 Trace Code: A14.0362  
 POLIBLEND SPA

RESULTS FOR POLIMID A SG NATURALE FD IN ACCORDANCE WITH FDA 21 CFR §177.1500		
Sample ID	Results (%)	Criteria (%)
Water A	0.47	1.5
Water B	0.47	1.5
95% Ethyl Alcohol A	0.26	1.5
95% Ethyl Alcohol B	0.29	1.5
Ethyl Acetate A	0.00	0.2
Ethyl Acetate B	0.00	0.2
Benzene A	0.00	0.2
Benzene B	0.00	0.2

RESULTS FOR POLIMID B AV NATURALE FD IN ACCORDANCE WITH FDA 21 CFR §177.1500		
Sample ID	Results (%)	Criteria (%)
Water A	0.42	1.0
Water B	0.42	1.0
95% Ethyl Alcohol A	0.16	2.0
95% Ethyl Alcohol B	0.15	2.0
Ethyl Acetate A	0.00	1.0
Ethyl Acetate B	0.00	1.0
Benzene A	0.00	1.0
Benzene B	0.00	1.0

**LETTERS & REPORTS:** UL Verification Services, Inc. (UL) letters and reports are issued for the exclusive use of the clients to whom they are addressed. No quotations from reports or use of the UL name is permitted except as expressly authorized in writing. Letters and reports apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. The liability of UL with respect to services rendered shall be limited to the amount of consideration paid for such service and not include any consequential damages. This report or certificate does not relieve sellers/suppliers from their contractual responsibility with regard to the quality/quantity of this delivery, nor does it prejudice clients' right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during our random inspection or testing. UL has not performed a complete analysis of the product. The results contained in this report indicate that the product has passed or failed the specific tests only. These test results, even if rated as "Passed," do not indicate or certify that the product is safe for commercial or consumer use.

UL Verification Services, Inc., 1559 King Street, Enfield, CT 06082 USA  
 Phone: (860) 749-8371 | Fax: (860) 749-0196 | Email: QAINFO@UL.COM | Website: [www.ul.com/consumer-products](http://www.ul.com/consumer-products)

Your satisfaction is very important to us; please participate in the following client satisfaction survey by visiting: [www.ul.com/customers](http://www.ul.com/customers)



# Test Report

Revised Report

Report No.: 100103764B

Project No.: 10303580.1

Date: May 5, 2014

Trace Code: A14.0362

POLIBLEND SPA

## RESULTS FOR POLIMID A 30 GF NATURALE FD IN ACCORDANCE WITH FDA 21 CFR §177.1500

Sample ID	Results (%)	Criteria (%)
Water A	0.38	1.5
Water B	0.41	1.5
95% Ethyl Alcohol A	0.20	1.5
95% Ethyl Alcohol B	0.21	1.5
Ethyl Acetate A	0.00	0.2
Ethyl Acetate B	0.00	0.2
Benzene A	0.02	0.2
Benzene B	0.01	0.2

## RESULTS FOR POLIMID B 30 GF NATURALE FD IN ACCORDANCE WITH FDA 21 CFR §177.1500

Sample ID	Results (%)	Criteria (%)
Water A	0.33	1.0
Water B	0.34	1.0
95% Ethyl Alcohol A	0.21	2.0
95% Ethyl Alcohol B	0.21	2.0
Ethyl Acetate A	0.00	1.0
Ethyl Acetate B	0.00	1.0
Benzene A	0.00	1.0
Benzene B	0.00	1.0

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

**LETTERS & REPORTS:** UL Verification Services, Inc. (UL) letters and reports are issued for the exclusive use of the clients to whom they are addressed. No quotations from reports or use of the UL name is permitted except as expressly authorized in writing. Letters and reports apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. The liability of UL with respect to services rendered shall be limited to the amount of consideration paid for such service and not include any consequential damages. This report or certificate does not relieve sellers/suppliers from their contractual responsibility with regard to the quality/quantity of this delivery, nor does it prejudice clients' right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during our random inspection or testing. UL has not performed a complete analysis of the product. The results contained in this report indicate that the product has passed or failed the specific tests only. These test results, even if rated as "Passed," do not indicate or certify that the product is safe for commercial or consumer use.

UL Verification Services, Inc., 1559 King Street, Enfield, CT 06082 USA

Phone: (860) 749-8371 | Fax: (860) 749-0196 | Email: QAINFO@UL.COM | Website: [www.ul.com/consumer-products](http://www.ul.com/consumer-products)

Your satisfaction is very important to us; please participate in the following client satisfaction survey by visiting: [www.ul.com/customers](http://www.ul.com/customers)



pH s.r.l. Società Unipersonale

Sede legale e Laboratorio Alimenti: via Sangallo, 29 - 50028 Tavarnelle V.P. (FI)

tel. +39 055 80961 fax. +39 055 8071099

Uffici e Laboratorio Ambiente: via Bramante, 10/12 - 50028 Tavarnelle V.P. (FI)

tel. +39 055 80677 fax. +39 055 8067850

e-mail: [info@pHsrl.it](mailto:info@pHsrl.it) PEC: [pHsrl@pec.pHsrl.it](mailto:pHsrl@pec.pHsrl.it)

web: [www.pHsrl.it](http://www.pHsrl.it)

## TEST REPORT

N°17-FC01994

**Identification number:** 17-FC01994  
**Sample description:** Polimid A 15 GF FD  
**Sampled by:** Customer (§)  
**Customer:** POLIBLEND S.P.A.  
VIA PICCINELLI, 12  
MOZZATE 22076 CO  
**Arrival date:** 28/07/2017

(§)The Laboratory is not responsible for sampling modalities.

## RESULTS

Determination	Result	unc	u.m.	LOQ	LOD	Limits	Method	Start	End
Extractable fraction in water (8 h at reflux)	0.2		%	0.1		1.5	FDA - Title 21 – 177.1500	28/07	03/08
Extractable fraction in benzene (8 h at reflux)	< 0.1		%	0.1		0.2	FDA - Title 21 – 177.1500	28/07	03/08
Extractable fraction in Ethyl acetate (8 h at reflux)	< 0.1		%	0.1		0.2	FDA - Title 21 – 177.1500	28/07	03/08
Extractable fraction in ethanol 95% (8 h at reflux)	< 0.1		%	0.1		1.5	FDA - Title 21 – 177.1500	28/07	03/08

Microbiological determinations: expanded uncertainty, coverage factor  $k=2$ , is stated as 95% confidence level of probability.

N.D.=less than LOD (limit of determination)

Chemical determinations: expanded uncertainty is referred to 95% confidence level. Coverage factor  $k=2$ .

The limit of determination (LOD) results as  $1/10LOQ*3$

N.D= less than LOQ (limit of quantification)

**OPINIONS AND INTERPRETATIONS:** (not subject to accreditation Accredia)

Regarding the parameters analyzed, the sample complies 21 CFR 177.1500

pH is registered under number 013 on the regional list of approved laboratories for analysis in the context of self-control procedures in the food industry (LR Tuscany No. 9 09/03/2006).

This test report shall not be reproduced except in full, without written approval of the laboratory.

The original test report is supplied in digital form, file 17-FC01994.p7m, and digitally signed by the authorised responsible.

Printed copy of the mentioned original digital test report has no legal value.

Mod. RDP\_WITH\_LIMITS\_INC rev.5 del 15/07/2015

Pagina 1 di 3



pH s.r.l. Società Unipersonale

Sede legale e Laboratorio Alimenti: via Sangallo, 29 - 50028 Tavarnelle V.P. (FI)

tel. +39 055 80961 fax. +39 055 8071099

Uffici e Laboratorio Ambiente: via Bramante, 10/12 - 50028 Tavarnelle V.P. (FI)

tel. +39 055 80677 fax. +39 055 8067850

e-mail: [info@phsrl.it](mailto:info@phsrl.it) PEC: [phsrl@pec.phsrl.it](mailto:phsrl@pec.phsrl.it)

web: [www.phsrl.it](http://www.phsrl.it)

**N°17-FC01994**

The reported results only refer to the tested sample.

u.m. = unit of measurement; unc = uncertainty;

Sample conditions at the arrival are recorded in the laboratory managing system.

Food and not perishable samples are store for 30 day from the arrival date.

Water, compost and perishable samples are stored until the emission of the Test Report.

Date, 08/08/2017



per il Responsabile di Laboratorio  
dott. Fabrizio Ferraro

pH is registered under number 013 on the regional list of approved laboratories for analysis in the context of self-control procedures in the food industry (LR Tuscany No. 9 09/03/2006).

This test report shall not be reproduced except in full, without written approval of the laboratory.

The original test report is supplied in digital form, file 17-FC01994.p7m, and digitally signed by the authorised responsible.

Printed copy of the mentioned original digital test report has no legal value.

Mod. RDP\_WITH\_LIMITS\_INC rev.5 del 15/07/2015

Pagina 2 di 3



pH s.r.l. Società Unipersonale

Sede legale e Laboratorio Alimenti: via Sangallo, 29 - 50028 Tavarnelle V.P. (FI)

tel. +39 055 80961 fax. +39 055 8071099

Uffici e Laboratorio Ambiente: via Bramante, 10/12 - 50028 Tavarnelle V.P. (FI)

tel. +39 055 80677 fax. +39 055 8067850

e-mail: [info@pHsrl.it](mailto:info@pHsrl.it) PEC: [pHsrl@pec.pHsrl.it](mailto:pHsrl@pec.pHsrl.it)

web: [www.pHsrl.it](http://www.pHsrl.it)

**N°17-FC01994**



photo n. 1

pH is registered under number 013 on the regional list of approved laboratories for analysis in the context of self-control procedures in the food industry (LR Tuscany No. 9 09/03/2006).

This test report shall not be reproduced except in full, without written approval of the laboratory.

The original test report is supplied in digital form, file 17-FC01994.p7m, and digitally signed by the authorised responsible.

Printed copy of the mentioned original digital test report has no legal value.

Mod. RDP\_WITH\_LIMITS\_INC rev.5 del 15/07/2015

Pagina 3 di 3