



ISTITUTO DI RICERCHE E COLLAUDI

M. MASINI S.r.l.

Sede amministrativa e laboratori: Via Moscova, 11 - 20017 RHO (MI)

Tel. 02/930.15.17 r.a. - Fax 02/930.81.76 - Internet: www.istitutomasini.it - E-mail istitutomasini@istitutomasini.it

Notificato CE 0068 - Accreditato SINCERT 047A - Accreditato SINAL 0019 - Competent Body: EMC CE 2004/108 e BT 2006/95/CE

Autorizzazioni:

Ministero delle Infrastrutture e dei Trasporti per legge 1086 - Ministero dell'Università e della Ricerca Scientifica e Tecnologica per Legge 46/82 - Ministero delle Attività Produttive - Ministero dell'Interno per prove reazione al fuoco, estintori portatili e carrellati, evacuatori di fumo e calore - Ministero della Salute per analisi in BPL e prove I.S.P.E.S.L. - Regione Lombardia per analisi acque potabili e non - Ministère de l'Industrie, de la Poste et des Télécommunications per pentole a pressione e verifiche di sorveglianza alla produzione

Certificazione di prodotto - Controlli non distruttivi - Prove tecnologiche - Termografia - Prove termotecniche - Rilievi estensimetrici - Prove calcestruzzi - Geotecnica
Analisi chimica - Agroalimentare - Cosmetici - Metallografia - Microscopia elettronica - Sicurezza - Ecologia - Controllo qualità - Ricerche - Consulenze

Rho, 28 July 2008

TEST REPORT No. 2141-2008

page 1 of 2

NPA 1109/08

Order: letter dated 19/06/2008

SUBJECT: Suitability test on polyamide-6 resin destined to be in contact with foodstuff in accordance with Directive 2002/72/CE and its successive updates and variations.

On 20/06/2008 our laboratory received no. 1 sampling of film in polyamide-6 identified as:

Product name: POLYAMIDE 6 VOLGAMID F

Manufacturer: OJSC Kuibyshev Azot

Novozavodskaya str. - 445007 TOGLIATY (SAMARA region) - Russia

This items have been submitted to global migration test and caprolactam specific migration test in 3 % acid acetic, 10 % ethanol and rectified olive oil after 10 days of contact at 40°C. In addition, it has been verified the content of lead, cadmium, mercury and chromium VI.

COPIA CONFORME ALL'ORIGINALE

EMESSA IL 27 SET 2008

RICHIESTA DEL 27 AGO 2008

Test methods and results, performed in the period 27/06 ÷ 15/07/2008, are reported in the following page.

This test report refers only to the tested sample and can be reproduced only in full.

Laboratory technician

Technical manager



-TEST METHODS AND RESULTS -

Global migration test in 3% acid acetic, 10% ethanol and rectified olive oil after 10 days of contact at 40°C has been performed according to Ministerial Decree 21/03/1973 – Attachment IV.

Lead, cadmium, mercury have been determined by inductively coupled plasma-mass spectrometry (ICP) after sampling combustion and its dissolution in acid solution.

Chromium IV have been determined by spectrophotometrical method.

Global migration in 3% acid acetic at 40 C° for 10 days	1,4 ± 0,2 mg/dm ²
Caprolactam specific migration in 3% acid acetic at 40 C° for 10 days	2,5 ± 0,1 mg/kg
Global migration in 10% ethanol at 40 C° for 10 days	1,0 ± 0,1 mg/dm ²
Caprolactam specific migration in 10% ethanol at 40 C° for 10 days	2,7 ± 0,1 mg/kg
Global migration in rectified olive oil at 40 C° for 10 days	3,3 ± 0,2 mg/dm ²
Caprolactam specific migration in rectified olive oil at 40 C° for 10 days	8,6 ± 0,8 mg/kg
Cadmium content	<0,1 ppm
Lead content	<0,1 ppm
Mercury content	0,3 ± 0,1 ppm
Chromium VI content	1,6 ± 0,5 ppm

REFERENCE LIMITS

Limit for global migration, reported on Directive 2002/72/EC and its following updates:

60 ppm and/or 10 mg/dm²

Limit for caprolactam specific migration LMS(T), reported on Directive 2002/72/EC:

15 mg/kg

Limit for global content of lead, cadmium, mercury and chromium VI reported on Directive 94/62/EC:

100 ppm

All the analysed parameters respect the limits prescribed by current European standards for materials destined to be in contact with foodstuff.

COPIA CONFORME ALL'ORIGINALE
EMESSA IL 2 SET 2008
RICHIESTA DEL 27 AGO 2008