

### LABORATORIO ITALIANO GOMMA

April 09th, 2018 Date,

529-(eng)/2017 TR n°

Your Confirm dated 12.09.2017 Ref.

Received

14.09.2017

Start tests 18.09.2017

To

TUBI GOMMA TORINO S.p.A.

Strada Statale 31 - km 39,4, n. 42

15040 MIRABELLO MONFERRATO (AL)

End tests 21.11.2017 Page 1 of 2

Doguiromonto

# SUPPLEMENT TO TEST REPORT

### Subject:

SUITABILITY TO BE USED IN CONTACT WITH FOODS, ACCORDING TO BFR - XXI RECCOMANDATION - CATEGORY 2, ON A SAMPLE OF RUBBER COMPOUND MARKED "BUTILE BIIR ST BIANCO" SUPPLIED AS VULCANIZED RUBBER SHEETS 2 mm thick

On the rubber compound "BUTILE BIIR ST BIANCO"		
% 1,0	≤ 3	
% 0,001	≤ 0,003	
	≤ 5	
g/l Not detectable (<0,01)	$\leq$ 0,3	
kg <b>0,02</b>	$\leq 0,1$	
ner		
	"BUTILE BIIR ST BIANCO" 1,0 0,001  Mot detectable (<0,02) Not detectable (<0,01)	

### Compound:

## **BUTILE BIIR ST BIANCO**

# Migrations after contact of the rubber sheets with the Simulators for 24 hours at 40°C (Category 2)

## **Simulator: Distilled water**

•	Total migration	mg/dm²	3,3	. 1	$\leq 20$
•	Primary arylamines	μg/l	Not detectable		≤ 20
•	Secondary N-alkyl arylamines	mg/l	0,1		<b>≤</b> 1
•	Formaldehyde	μg/ml	Not detectable	r	≤ 3
•	N-nitrosamines	μg/dm²	< 0,01		<b>≤</b> 1

### Simulator: Acetic acid 3% (m/v) in water

•	Total migration	mg/dm <sup>2</sup>	45,1	≤ 100
•	Primary arylamines	μg/l	Not detectable	≤ 20
•	Secondary N-alkyl arylamines	mg/l	0,9	≤ 1
•	N-nitrosamines	μg/dm²	< 0,01	≤ 1



ORALORIO KALIANO GOMMA

Date,

April 09<sup>th</sup>, 2018

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# SUPPLEMENT TO TEST REPORT

Requirements

Compound:

**BUTILE BIIR ST BIANCO** 

Migrations after contact of the rubber sheets with the Simulators for 24 hours at 40°C (Category 2)

### Simulator: Ethanol 10% (v/v) in water

•	Total migration	mg/dm²	3,3	≤ 20
•	Primary arylamines	μg/l	Not detectable	≤ 20
•	Secondary N-alkyl arylamines	mg/l	0,1	<b>≤</b> 1
•	N-nitrosamines	μ <b>g/dm</b> ²	< 0,01	≤ 1

**NOTE:** The food simulators at the end of the contact are colourless, odourless and tasteless.

REMARK: On the basis of the test results and on the basis of the recipe provided by the Customer, we certifies that the examined rubber compound marked "BUTILE BIIR ST BIANCO" is in compliance with the requirements of the Recommendation XXI Category 2 of BfR for the use in contact with all foods, including milk.

The sampling has been carried out by the Customer.

The contained results refer only to the tested sample.

This report cannot be partially reproduced without the laboratory approval.

E. Badomer, Operator

F. Negroni, Di

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