



Date, June 26th, 2017
 TR n° **349-(eng)/2016**
 Ref. Your Confirm dated 19.05.16

To
 TUBI GOMMA TORINO S.p.A.
 Strada Statale 31 – km 39,4, n. 42
 15040 MIRABELLO MONFERRATO (AL)

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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 "**EPDM 60 BA FDA BFR**" SUPPLIED AS VULCANIZED RUBBER SHEETS 2 mm thick

		<u>On the rubber compound</u> <u>"EPDM 60 BA FDA BFR"</u>	<u>Requirements</u>
• Content of zinc	%	0,8	≤ 3
• Content of lead	%	< 0,001	≤ 0,003
• Content of aliphatic and cycloaliphatic amines	mg/dm ²	Not detectable (<0,02)	≤ 5
• p-phenylenediamine	mg/l	Not detectable (<0,01)	≤ 0,3
• Zinc dibenzyl dithiocarbamate	mg/kg elastomer	Not detectable (<0,1)	≤ 0,1

Compound: EPDM 60 BA FDA BFR Migrations after contact of the rubber sheets with the Simulators for 24 hours at 40°C (Category 2)

Simulator: Distilled water

• Total migration	mg/dm ²	6,0	≤ 20
• Primary arylamines	µg/l	Not detectable	≤ 20
• Secondary N-alkyl arylamines	mg/l	Not detectable	≤ 1
• Formaldehyde	µg/ml	Not detectable	≤ 3
• N-nitrosamines	µg/dm ²	< 0,01	≤ 1

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

• Total migration	mg/dm ²	39,6	≤ 100
• Primary arylamines	µg/l	2,0	≤ 20
• Secondary N-alkyl arylamines	mg/l	Not detectable	≤ 1
• N-nitrosamines	µg/dm ²	< 0,01	≤ 1

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S U P P L E M E N T T O T E S T R E P O R T

Requirements**Compound: EPDM 60 BA FDA BFR****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/dm ²	7,3	≤ 20
• Primary arylamines	µg/l	3,0	≤ 20
• Secondary N-alkyl arylamines	mg/l	Not detectable	≤ 1
• N-nitrosamines	µg/dm 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 nitrilic rubber compound marked "**EPDM 60 BA FDA BFR**" **is in compliance** with the requirements of the **Recommendation XXI Category 2 of BfR** for the use in contact with foods, including milkThe 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, **Director**