



Sede e Stab.: S.S. 31 Km. 39,4 n. 42 - 15040 MIRABELLO MONF. TO (AL) ITALY
 Tel. 0142.641300 - Fax 0142.641350 - Capitale Sociale € 474.720,00
 R.E.A. n. 155174 della C.C.I.A.A. di AL - Reg. Impr. AL 00507620029
 Codice Fiscale 00507620029 - Partita IVA IT 01345790065
 sito internet: <http://www.tubigommatorino.com> - e-mail: com@tubigommatorino.it

Messrs. PM PETERSON COMPANY LLC
 To the attention of Mr. Jan Tovtik



IQNet Registrations No. IT-2825 - Certificate No. 312/96/S

	Conformity Declaration AGRASTEAM /170°C Washdown hose for food industry floors and equipments	N°002/15 rev.1																																			
<p>Hose to be manufactured on stainless steel mandrels using lining rubber compound in compliance with: Requirements of FDA -CFR 21-Parts 170 to 199- Item 177.2600 (a), (b), (c), (d) for dry foods, (e) for aqueous foods and (f) for fatty foods - CERISIE R.P. n°454/2015;</p> <p>TUBE: white, smooth, EPR compound food quality (called TTB BIANCA PX FDA), odourless and taste-free .</p> <p>REINFORCEMENT: high strenght synthetic plies.</p> <p>COVER: blue, smooth, cloth impression EPDM rubber, resistant to abrasion, ozone and weather.</p> <p>WORKING TEMPERATURE: -40°C +170°C (-40°F +338°F)</p> <p>TOLERANCES: Inside and outside diameters according to ISO 1307-92. Lenght tolerance: ± 1%.</p> <p style="text-align: center;">INSPECTION TESTING</p> <ol style="list-style-type: none"> 1. Internal and external diameter check: measured values shall meet the tolerances of ISO 1307-92. 2. Visual examination: hose shall be free from defects or surface imperfections. <p style="text-align: center;">QUALIFICATION TESTING</p> <ol style="list-style-type: none"> 1. I.D., O.D. , WEIGHT, W.P. , B.P. according to TABLE A <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <caption>TABLE A</caption> <thead> <tr> <th>ID (mm)</th> <th>OD (mm)</th> <th>WEIGHT (Kg/m)</th> <th>WP (bar)</th> <th>BP (bar)</th> </tr> </thead> <tbody> <tr><td>13</td><td>24</td><td>0,67</td><td>7</td><td>70</td></tr> <tr><td>19</td><td>31</td><td>1,10</td><td>7</td><td>70</td></tr> <tr><td>25</td><td>37</td><td>1,23</td><td>7</td><td>70</td></tr> <tr><td>32</td><td>44</td><td>1,57</td><td>7</td><td>70</td></tr> <tr><td>38</td><td>50</td><td>1,90</td><td>7</td><td>70</td></tr> <tr><td>51</td><td>64</td><td>2,50</td><td>7</td><td>70</td></tr> </tbody> </table> <ol style="list-style-type: none"> 2. Change in lenght at 1,5 x W.P. = 0% up to +10% (ISO 1402) 3. B.P. ≥ 7 x W.P. (ISO 1402) 4. Cover abrasion ≤ 350 mmc (DIN 53516-ISO 4649) 5. Cover ozone resistance = 50 pphm, 20%, 40°C, 72 h (ISO 1431-1) 6. Tube and cover adhesion ≥ 1,5 N/mm (ISO 8033) 7. Tube and cover tensile strenght ≥ 7 Mpa (ISO 37) 8. Tube and cover elongation ≥ 300% (ISO 37) 			ID (mm)	OD (mm)	WEIGHT (Kg/m)	WP (bar)	BP (bar)	13	24	0,67	7	70	19	31	1,10	7	70	25	37	1,23	7	70	32	44	1,57	7	70	38	50	1,90	7	70	51	64	2,50	7	70
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Issue date:	07/07/2015	Revision date:	21/07/2015	Signature:	Chiara Bordinò 																																



To

TUBI GOMMA TORINO S.p.A.

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

Date, July 16th, 2015

TR n° **454-(EN)/2015**

Ref. Your Confirmation dated 17.06.2015

15040 MIRABELLO MONFERRATO (TO)

Received 23.06.2015

Start tests 13.07.2015

End tests 16.07.2015 Page 1 of 1

T E S T R E P O R T

Subject: SUITABILITY TO BE USED IN CONTACT WITH FOODS, ACCORDING TO FDA, OF A RUBBER COMPOUND, MARKED "EPR TTB BIANCA PX FDA", SUPPLIED AS VULCANIZED SHEETS 2 mm thick

RUBBER COMPOUND
(Sheets 200x200x2 mm)

EPR TTB BIANCA
PX FDA

Test methods

Requirements

AQUEOUS FOODS

FDA-Title 21
Parts 170 to 199
Item 177.2600
(e)

Distilled water at reflux temperature

Total extractable matter during the first 7 hours of extraction	mg/in ²	2,0	max 20
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Total extractable matter during the succeeding 2 hours of extraction	mg/in ²	0,4	max 1
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FATTY FOODS

FDA-Title 21
Parts 170 to 199
Item 177.2600
(f)

n-Hexane at reflux temperature

Total extractable matter during the first 7 hours of extraction	mg/in ²	68,8	max 175
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Total extractable matter during the succeeding 2 hours of extraction	mg/in ²	2,3	max 4
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REMARK: On the basis of the test results and on the basis of the recipe provided by the Customer, **we certifies** that the rubber compound marked "**EPR TTB BIANCA PX FDA**" **is in compliance** with the Requirements of the FDA - CFR 21 - Parts 170 to 199 - Item 177.2600 Paragraph (a), (b), (c), (d) of the use in contact with dry foods, (e) of the contact with aqueous foods and (f) of the contact with fatty foods.

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, **Director**

