

# Technical data sheet

## WEEGALFILM KOEX 810, KOEX 811, KOEX 812 KOEX 814

[Decl. UE ID3]

### 1 Product and producer's identification

- **Product description:** transparent plastic material, unprinted, PVC – P (plasticized polyvinyl chloride) film structured in reels of several widths.
- **Commercial name:**
  - WEEGAL FILM KOEX 810, KOEX 811, KOEX 812 , KOEX 814
- **Producer/supplier:**
- **Gruppo Fabbri (Svizzera) SA**  
*Via ai Molini n°3 – CH-6933 Muzzano (Switzerland)*  
*Tel. (+41)(91) 960 15 15 – Fax (+41)(91) 967 27 72*
- Website: [www.gruppofabbri.com](http://www.gruppofabbri.com) - E-Mail: [gfsvizzera@gruppofabbri.com](mailto:gfsvizzera@gruppofabbri.com)
- **Information spread by:** LAB

### 2 Product characteristics

- **Chemical composition:** Polyvinyl chloride (PVC) with plasticizers, anti-oxidants and stabilizers. All these raw materials are suitable for the foodstuffs contact; chlorine content: 37 – 38 %
- **Film type:** Extensible double-layer with antifog effect
- **Reel inner cardboard core diameter:** 112,0 – 112,7 mm
- **Reel outer core diameter:** 230 mm (max)
- **Physical data:**

| Parameter         | Unit of measure | Method   | KOEX 810<br>10 µm | KOEX 811<br>11 µm | KOEX 812<br>12 µm | KOEX 814<br>14 µm | Tolerance<br>Ⓢ |
|-------------------|-----------------|----------|-------------------|-------------------|-------------------|-------------------|----------------|
| Nominal Thickness | µm              | Internal | 10                | 11                | 12                | 14                | ± 18 %         |
| Nominal Width     | mm              | Internal | Various           | Various           | Various           | Various           | ± 6 mm         |

- **Tensile properties referred to the nominal thickness:**

| Parameter                 | Direction | Unit of measure    | Method    | KOEX 810<br>10 µm | KOEX 811<br>11 µm | KOEX 812<br>12 µm | KOEX 814<br>14 µm | Tolerance<br>Ⓢ |
|---------------------------|-----------|--------------------|-----------|-------------------|-------------------|-------------------|-------------------|----------------|
| Tensile strength at break | MD*       | Kg/cm <sup>2</sup> | ASTM D882 | 410               | 413               | 415               | 420               | ± 10 %         |
| Elongation at break       | MD        | %                  | ASTM D882 | 200               | 205               | 210               | 220               | ± 10 %         |
| Tensile strength at break | TD**      | Kg/cm <sup>2</sup> | ASTM D882 | 300               | 305               | 310               | 320               | ± 10 %         |
| Elongation at break       | TD        | %                  | ASTM D882 | 300               | 305               | 310               | 320               | ± 10 %         |

\* MD = longitudinal direction; \*\* TD = transversal direction.

## Technical data sheet

### WEEGALFILM KOEX 810, KOEX 811, KOEX 812 KOEX 814

[Decl. UE ID3]

■ **Gas transmission rates referred to the nominal thickness:**

| Gas                   | Conditions         | Unit of measure                            | Method                | KOEX 810<br>10 µm | KOEX 811<br>11 µm | KOEX 812<br>12 µm | KOEX 814<br>14 µm | Tolerance<br>① |
|-----------------------|--------------------|--------------------------------------------|-----------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| <b>O<sub>2</sub></b>  | 23 °C,<br>0 % U.R. | cc/(m <sup>2</sup> *24h) bar <sup>-1</sup> | ASTM<br>F2622<br>(08) | 13.100            | 12.450            | 11.800            | 10.500            | ± 10 %         |
| <b>CO<sub>2</sub></b> | 23 °C,<br>0 % U.R. | cc/(m <sup>2</sup> *24h) bar <sup>-1</sup> | ASTM<br>F2476<br>(05) | 88.500            | 84.250            | 80.000            | 70.500            | ± 10 %         |
| <b>Water vapour</b>   | 38 °C<br>90 % U.R. | gr/(m <sup>2</sup> *24h) bar <sup>-1</sup> | ASTM<br>F1249<br>(06) | 1.050             | 1.000             | 950               | 850               | ± 10 %         |

- The “**optical**” **characteristics** are tested by the properly qualified persons as foreseen by the “Laboratory Control” and by the “Control Project of the Manufacturing Development”.

① Below stated tolerances are those used as parameter for quality controls performed at production line and/or internal laboratory and are representative of product features at the end of manufacturing process. Stated that above mentioned features might vary, being influenced by different factors such as preservation condition, transport, use and tests, quoted tolerance ranges are to be considered strictly indicative.

### 3 Use conditions

- **Conditions of use:**
- between 0 and 40 ° C (compatible with the regulations for the operation of the machine).
  - WEEGAL FILM KOEX 810 is intended only for manual use. The producer is not responsible for the packaging performances in case of use on automatic equipment.
- **Maximum time of use:**
- 12 months, from the date of packaging recorded in the cardboard box.
- **Precautions for use:**
- NOT SUITABLE FOR CONVENTIONAL OVEN OR MICROWAVE
  - Heating up to the temperatures specified in the Declaration of Conformity must be obtained in banks with controlled temperature heating;
  - It is advisable to place the coil in the machine, adjusting it first before starting the product conditioning
  - It is also advisable to remove the cardboard box only when it is ready for use and not to remove the label placed inside the core, to keep the references and be able to track the product;
  - The printed side that you can carry should not be placed in contact with food products.

## Technical data sheet

### WEEGALFILM KOEX 810, KOEX 811, KOEX 812 KOEX 814

[Decl. UE ID3]

#### 4 Storage

- **Maximum storage time:** see the option “Maximum use time” in point 3
- **Storage conditions:**
  - Store in a dry place at temperatures not exceeding 35 ° C;
  - Store so that the reels do not come into contact with water, liquids, odorous substances or chemical substances in general, so as not to alter the olfactory and taste properties, in addition to avoiding any type of contamination;
  - Keep the container always intact until use;
  - It is a good rule to use warehouse stocks in rotation, based on the delivery date of the merchandise;
  - It is a good rule to activate a pest analysis system in storage tanks so as not to contaminate the product.
- **Transportation conditions:**
  - Gruppo Fabbri Svizzera guarantees the control of transport vehicles loaded in its plant, to protect the product of any type of contamination due to foreign bodies, biological agents or chemical substances, as well as damage to them.
  - It is advised that the customer check the transport vehicles used, on their own, in the eventual transfer of the merchandise to preserve the quality characteristics of the product; These controls must be based in particular on the contact with liquids / chemical substances / odorous substances / foreign bodies or biological debris, as well as on the stability of the load, to prevent damage.
- **Handling:** Avoid damaging the reels to preserve functional characteristics.

#### 5 Packaging way

The product is packaged in a closed paper cardboard box with two protection plastic caps. The cardboard boxes are then placed on a pallet, which is double strapped and wrapped with a transparent film.

#### 6 Sustainability

The product complies with the requirements of the following technical standards:

- UNI EN ISO 13430:2005 “Requirements for packaging recoverable by material recycling”;
- UNI EN ISO 13431:2005 “Requirements for packaging recoverable in the form of energy recovery, including specification of minimum inferior calorific value”.

