

# PVDC

KREHALON PVDC casings are monolayer shrinkable casings extruded using polyvinylidene chloride (PVDC) resin. PVDC is the world's highest barrier single layer plastic material. KREHALON PVDC casings therefore offer exceptional barrier properties against moisture loss, oxygen penetration and UV light discolouration.



KREHALON PVDC casings are used widely by the meat, poultry, fish, cheese and other food manufacturing industries as well as for some non-food applications. These industries use to the full the protection gained from the exceptional barrier properties. KREHALON PVDC casings are available in an attractive range of colours, sizes and various converting formats designed for all modern filling and clipping equipment.

## KREHALON PVDC CASINGS

### Available types

Two types of casings are available. ED for standard applications and EDG for exceptional barrier applications. Both are available with or without a coating for meat adhesion. Coating is identified by the code letter L.

### Available widths

Flat width sizes from 30mm to 110mm in 5 mm increments  
Flat width sizes from 110mm to 220mm in 10 mm increments

Note: KREHALON PVDC casings are sold by flat width and not by calibre.

### Standard thicknesses

No. 4 approx. 40 micron  
No. 5 approx. 50 micron  
No. 6 approx. 60 micron

### Colours

1. KREHALON PVDC casings are available in more than 20 different shiny colours: e.g. clear, white, amber, orange, yellow, cream, pink, red, black, brown, silver, gold etc. For most colours several shades are available.
2. KREHALON PVDC casings are also available in non-shiny mat colours, MATTIN® is the trade mark for these casings. MATTIN® is available in white, yellow, brown, amber, orange, gold and red.

For actual colour samples, refer to the colour sample range. The minimum quantity for any one size/colour is 10,000 meters.

## CONVERTING OF STRAIGHT CASING

### Shirring

Standard shirring widths: 32mm-220mm.  
Standard stick lengths: 45cm and 60cm.  
Each shirred stick is packed in a net.

### Cutting and clipping

Standard cut sizes: flat width 35mm-200mm.  
length 215mm-950mm.

Standard quantity per bundle: 25 pieces.  
Clipped casings can be supplied with or without loop.

### Printing

Flexographic printing on one or two sides up to 6 colours, depending upon width.

Flat width	Maximum number of colours
30mm - 40mm	2 + 2
45mm - 220mm	6 + 6

### Notes

1. Distance from the sides: printing width is width of casing material minus 5mm on each side.
2. Maximum print repeat length is 560mm.

KREHALON STRAIGHT PVDC casing can also be supplied on rolls.

## ADVANTAGES OF KREHALON PVDC CASINGS

### Extremely high barrier

PVDC casings offer excellent barrier controlling microbiological spoilage by limiting penetration from oxygen, controlling dehydration from moisture loss and minimizing discolouration due to UV light action.

### Effective shrink properties

During cooking KREHALON PVDC casings shrink following the product creating a tight wrinkle-free appearance and consumer eye-appeal.

### Good machinability

KREHALON PVDC casings can be used on all types of filling and clipping equipment available today.

### Sterilization possibility

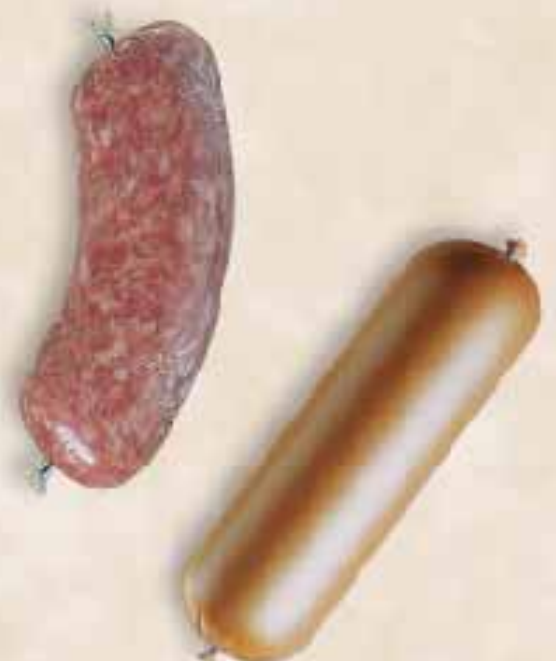
KREHALON PVDC casings are widely used for non-refrigerated, sterilized products. Cooking up to 121°C with counter pressure is possible.

### Excellent meat adhesion

KREHALON PVDC casings can be supplied with a special "L" meat adhesion coating which helps to prevent fat and jelly separation and still gives easy peeling.

### Extensive range

KREHALON PVDC casings are available in an extraordinary number of types, colours, sizes to give choice for all users.



## TECHNICAL DATA

Item	Method	Unit	KREHALON PVDC CASING
Thickness		microns	40
Specific Gravity		kg/dm <sup>3</sup>	1.62 - 1.67
Tensile Strength	ASTM D-882-67	kg/mm <sup>2</sup> (L) <sup>(1)</sup> at 23°C (T)	7 - 10 7 - 12
Elongation at break	ASTM D-882-67	% (L) at 23°C (T)	80 - 90 60 - 80
Elastic Modulus	ASTM D-882-67	kg/mm <sup>2</sup> (L) at 23°C (T)	22 - 35 20 - 30
O <sup>2</sup> Gas Transmission	LISSY	cc/m <sup>2</sup> day atm. at 23°C 100% R.H.	12 - 65
Water Vapour Transmission	ASTM E96-66E	cc/m <sup>2</sup> day atm. at 23°C 90% R.H.	2 - 8
Thermal Shrinkage	KUREHA	at 100°C % (L/T) at 80°C % (L/T)	15 - 25/10 - 20 10 - 15/ 6 - 10

Note: These data are offered as a guide and do not imply any guarantee of performance.  
Krehalon PVDC casings conform to all EU legislation concerning materials in contact with food.

<sup>(1)</sup> = (L) = Longitudinal, (T) = Transversal

## PVDC RING CASING

Type	Inner ring diameter	Available flat widths	Thickness
D10	10cm (approx.)	45mm-60mm	No. 5
D15	15cm (approx.)	50mm-80mm	No. 5
D18	18cm (approx.)	60mm-80mm	No. 5
D25	25cm (approx.)	60mm-80mm	No. 5

## CONVERTING

### Shirring

Standard shirring widths: 45mm-80mm.  
Standard stick lengths: 45cm and 60cm.  
Each shirred stick is packed in a net.

### Tying

Standard tying sizes:  
flat widths 55mm - 75mm  
lengths 200mm - 600mm  
Standard quantity per bundle: 25 pieces.  
Tied casings can be supplied with a loop or a string in various colours.

### Printing

Flexographic printing on one or two sides up to 6 colours, depending on width, is available.  
Looking at the stuffed PVDC RING casings, possible printing combinations are:

1. Top side
2. Bottom side
3. Top side + bottom side
4. Outside
5. Inside
6. Outside + inside

KREHALON PVDC RING casings can also be supplied on rolls approximately 300m in length.

## IMPORTANT NOTES

1. Preparation before use.  
It is recommended to store KREHALON PVDC casings at room temperature for 2 days before use. Pre-soaking is not absolutely necessary for KREHALON PVDC casings, but for cold products it is recommended to pre-soak at 25-45°C for 30 minutes.
2. Storage  
The ideal storage temperature is 20-25°C with an ideal R.H. of 50-60%. Temperature should not exceed 30°C. Avoid direct sun light and contact with radiators and heating pipes. Boxes of converted KREHALON PVDC casings should not be stacked higher than 7 boxes.
3. Size selection  
The finished diameter of any product depends as much on the product being filled, the processing conditions and the filling equipment, as the casing. We therefore recommend tests on specific applications in the given use conditions prior to defining the required flat widths of casing. As a guide for selecting flat widths of samples we recommend using 6-10% overstuffing.



# PVDC casing



**Krehalon**