



POULTRY BELTS

BANDAS AVÍCOLAS

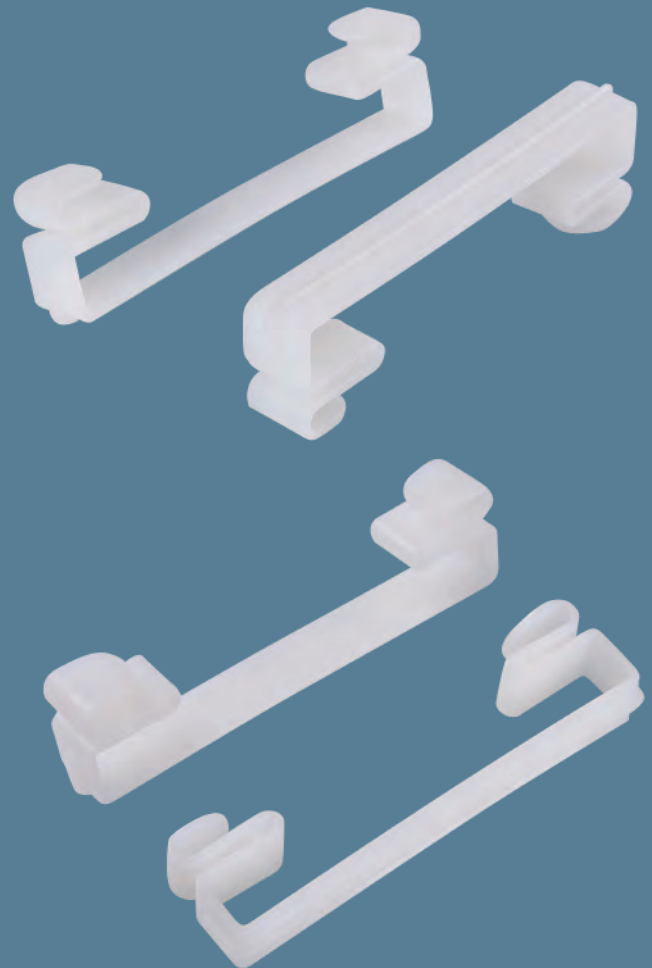
TECHNICAL DATASHEET EGG BELT CLIP

Poultry Belts' Egg Belt Clip is ideal as a complement to egg collection systems. Its core function is to maintain the position of conveyor belts and provide stability to the equipment. Our Egg Belt Clip is made of PPB – Polypropylene Block Copolymer. To better understand this type of raw material, it is necessary to follow the following sequence:

1. Polypropylene (PP) is a rigid crystalline thermoplastic used in everyday objects.
2. The two main types of PP readily available in the market are: homopolymer and copolymer.
 - a) PP homopolymer is most widely used as a general-purpose grade raw material.
 - b) Polypropylene copolymer is further divided into:
3. Random copolymer – nonregular pattern – and block copolymer – regular pattern.

The difference between the two is that the regular pattern, or blocks, makes the thermoplastic tougher and less brittle than the random copolymer. Therefore, it is suitable for applications requiring high impact resistance, such as industrial usages. It is so strong that it can even be used up to a temperature of approximately -30°C .

Poultry Belts' Egg Belt Clip comply with international environmental protection standards and work with 9 to 10 cm wide conveyor belts.



DIMENSIONS

Length	Width	Height
11.5 cm	1.6 cm	3 cm

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MADE IN SPAIN
European Quality

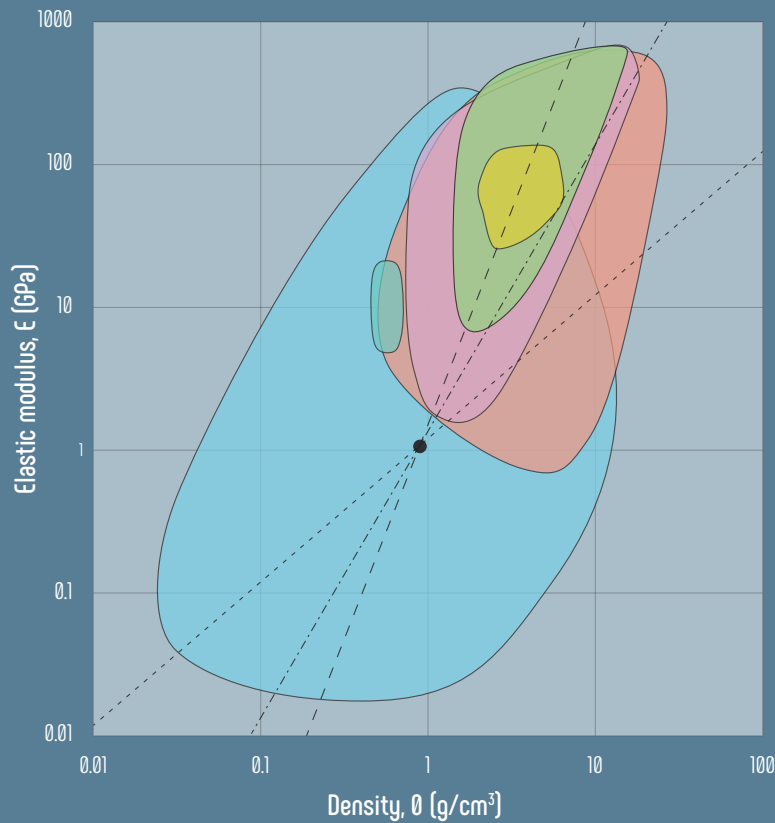
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TECHNICAL DATASHEET EGG BELT CLIP



- PPB – Polypropylene Block Copolymer
 - Polymer
 - Metal
 - Composite
 - Ceramic
 - Glass
 - Biological Material
- Min. mass design - Rod
 - - - - Min. mass design - Beam
 ····· Min. mass design - Shell

Properties

General

Density ρ	0.9 - 0.91 g/cm ³ at 20 °C
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Mechanical

Elastic modulus E	0.8 - 1.3 GPa at 20 °C
Elongation A	20 - 800 % at 20 °C
Impact strength, Charpy notched I_{vnot}	2.5 - 85 kJ/m ² at 20 °C
Impact strength, Charpy unnotched I_{unnot}	No break
Tensile strength R_m	20 - 30 MPa at 20 °C at 10-20% strain

Thermal

Coefficient of thermal expansion α	1E-4 - 1.5E-4 1/K at 20 °C
Flammability UL	94 HB
Max service temperature, long $T_{maxlong}$	80 °C
Max service temperature, short	90 °C
Melting point T_m	160 - 168 °C
Specific heat capacity c_p	2000 J/(kg·K) at 20 °C
Thermal conductivity λ	0.17 - 0.22 W/(m·K) at 20 °C

Electrical

Dielectric constant ϵ_r	2.2 - 2.3 [-] at 20 °C
Electrical resistivity ρ_{el}	1.00E+11 - 1.00E+14 $\Omega\cdot m$ at 20 °C

Optical

Transparency	no
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TECHNICAL FEATURES:



Ideal distance between clips 1.5 m



Weight 10.6 g approximate



Ideal for bands of 9 to 10 cm