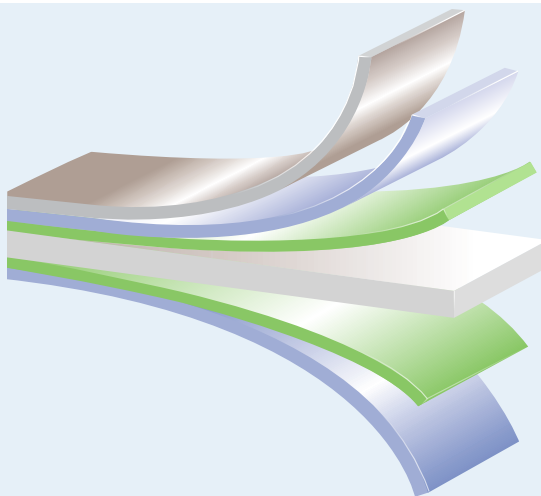


Propafilm™ ZP

Technical Data Sheet

ZP - Metallised, white-voided biaxially oriented polypropylene (BOPP) film, heat sealable (non-metallised side), high barrier, one side corona treated.



- Vacuum Deposited Aluminium
- Treated Metal Receptive Layer
- OPP Interlayer
- White Cavitated OPP Core
- OPP Interlayer
- Heat Sealable Layer

Features

- One side corona treated (outer side of the reel - metallised side)
- Heat sealable (non-metallised side)
- High light barrier
- High water vapour and aroma barrier
- High opacity

Applications

- Flexographic and rotogravure printing
- Horizontal and vertical packaging machines (HFFS-VFFS)
- Labels for PET bottles
- Printable and suitable for lamination (on metallised side)



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	ZP	
				35	40
Thickness	ISO 4593		micron	35	40
Yield Unit weight	ISO 536		m ² /kg g/m ²	40.82 24.50	35.71 28.00
Density	ISO 845		g/cm ³	0.70	
Aluminium adhesion to film	Innovia Films test			5.0	
Coefficient of friction (inner/inner)	ISO 8295	Dynamic		0.4	
Tensile Strength	ISO 527-1,-3		N/mm ²	MD TD	90 190
Elongation at break	ISO 527-1,-3		%	MD TD	150 40
Thermal shrinkage	Innovia Films test	120°C, 5'	%	MD TD	5.0 3.0
Sealing range*	Innovia Films test	1"; 150N; 130°C	°C	105-140	
Optical density	Innovia Films test			2.2	

*The selection of sealing temperatures depends on the characteristic of heat sealing bars and packaging process speed.

MD Machine Direction TD Transverse Direction
All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, unless otherwise stated. Where relevant, tests are based on international testing standards.

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Reel Specifications

Nominal Reel Diameters

Film	Outside Diameter 570mm (metres) - core 152mm	Outside Diameter 770mm (metres) - core 152mm	Outside Diameter 980mm (metres) - core 152mm
ZP35	6400	12150	19950
ZP40	5600	10600	17450

ns= non standard.

Other reel lengths are available subject to negotiation.

Reel Labelling

Different films have various special surfaces; these are indicated on the reel labels.

Film Storage and Handling

Recommended processing conditions: 15-35°C, humidity below 75% RH. Before processing it is recommended to season the film in the processing conditions at temperature 20°C for a minimum of 24 hours.

In case of transporting or storing the film:

- below +15°C or above +35°C seasoning time should be extended to 48 hours;
- below + 5°C or above +40°C seasoning time should be extended to 72 hours.

Compliance with the above guarantees correct film processing.

The suitability for printing and lamination is guaranteed for 30 days from the date of production.

Before the lamination process, the film must be additionally activated (metallised surface).

Before the printing process, the film must be additionally activated and primer must be applied (metallised surface).

Food Contact

Propafilm™ ZP complies with the applicable EU legislation for most applications involving direct contact with foods. Full details are given on the Declaration of Compliance. Customers intending to use Propafilm™ ZP in a food contact application should request a copy of this document from Innovia Films. Details of compliance with food contact legislation in non-EU countries are also available upon request.

Health & Safety Guidelines

For Health & Safety information, please refer to Innovia Poland's Quality documents.

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