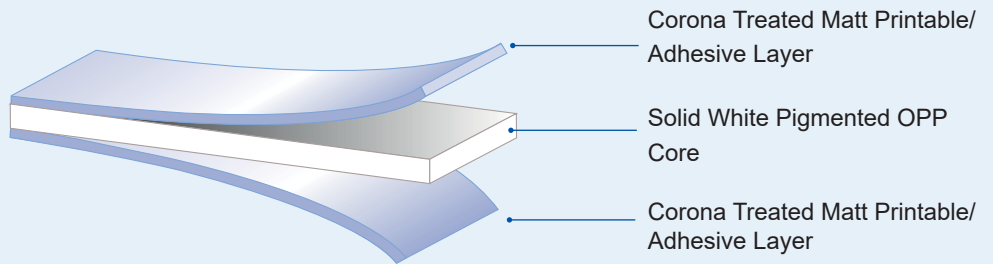


# RayoForm™ IW

## Technical Data Sheet

**IW** - White Pigmented, Biaxially Oriented Polypropylene Film for In Mould Labelling.



### Features

- Excellent whiteness
- Matt surface both sides
- Anti-static
- Recyclable with polyolefin materials
- Balanced biaxial orientation
- Suitable for sheet fed processes
- No 'orange peel' effect
- Resistant to moisture and oils

### Printability

**RayoForm™ IW** can be printed by flexographic, gravure, letterpress and screen processes. Its anti-static nature also makes it ideally suited to sheet fed litho processes. However, exact ink systems should be recommended by your supplier. The matt nature of RayoForm™ IW make it ideally suited to sheet fed printing processes. Either surface of RayoForm™ IW can be printed.



### Technical Properties (Typical Values)

| Property                       | Test Method        | Test Conditions          | Units               | IW    |       |
|--------------------------------|--------------------|--------------------------|---------------------|-------|-------|
| Thickness                      | Innovia Films test |                          | micron              | 58    | 72    |
|                                |                    |                          | gauge               | 230   | 290   |
| Yield                          | Innovia Films test |                          | m <sup>2</sup> /kg  | 17.6  | 14.2  |
|                                |                    |                          | in <sup>2</sup> /lb | 12400 | 10000 |
|                                |                    |                          | g/m <sup>2</sup>    | 56.8  | 70.4  |
| Optical opacity                | ASTM D 2457        | 45°                      | %                   | 80    | 83    |
| Tensile strength               | ASTM D 882         | Strain rate 50%/min      | MN/m <sup>2</sup>   | MD    | 175   |
|                                |                    |                          |                     | TD    | 155   |
|                                |                    |                          | kpsi                | MD    | 25.4  |
|                                |                    |                          |                     | TD    | 22.5  |
| Elongation at break            | ASTM D 882         | Strain rate 50%/min      | %                   | MD    | 85    |
|                                |                    |                          |                     | TD    | 110   |
| Elasticity modulus (1% secant) | ASTM D 882         | Strain rate 10%/min      | MN/m <sup>2</sup>   | MD    | 2400  |
|                                |                    |                          |                     | TD    | 2100  |
|                                |                    |                          | kpsi                | MD    | 348   |
|                                |                    |                          |                     | TD    | 304   |
| Dimensional stability          | Innovia Films test | 60 secs at 130°C (266°F) | %                   | MD    | 3.0   |
|                                |                    |                          |                     | TD    | 1.0   |

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards.

RayoForm™ IW - 1 of 2 - 0120

# RayoForm™ IW

## Technical Data Sheet

### Applications

RayoForm™ IW is a solid white, biaxially oriented polypropylene film for injection in mould labelling of polyethylene and polypropylene containers. Its balanced biaxial orientation makes it ideally suited to the complex die cut shapes required for multi-surface labelling of tubs as well as less demanding cylindrical mouldings. The films balanced orientation also results in reduced container distortion. The films solid nature ensures no 'orange peel' effect after moulding.

**RayoForm™ IW72(290)** is designed for labelling of large containers and durable goods.

### Reel Specifications

#### Nominal Reel Diameters

| Film | Single Length (metres) | 12x Length (metres) |
|------|------------------------|---------------------|
| IW58 | 625                    | 7500                |
| IW72 | 530                    | 6350                |

| Film  | Single Length (feet) | 12x Length (feet) |
|-------|----------------------|-------------------|
| IW230 | 2050                 | 20500             |
| IW290 | 1750                 | 17500             |

Other reel lengths are available in multiples of the single length as per the core diameter listed below.

| Outside Diameter     | 1x            | 2x            | 4x             | 6x             | 8x             | 12x           |
|----------------------|---------------|---------------|----------------|----------------|----------------|---------------|
| For 77mm / 3in core  | 240mm<br>9½in | 330mm<br>13in | 450mm<br>18in  | -              | -              | -             |
| For 153mm / 6in core | -             | -             | 475mm<br>18¾in | 570mm<br>22½in | 650mm<br>25½in | 785mm<br>31in |

Alternative reel lengths/core sizes are available subject to negotiation.

### Film Storage and Handling

For the storage of RayoForm™ IW it is recommended that dry conditions at temperatures below 30°C (86°F) are employed to minimise any deterioration of surface discharge treatment level. RayoForm™ IW is suitable for use for 6 months from the date of delivery and stocks should be used in rotation. Films should be allowed to reach operating room temperatures for 24 hours before use.

### Food Contact

RayoForm™ IW complies with the applicable EU and US legislation for most applications involving direct contact with food. Details are given on the Declaration of Compliance. Customers intending to use RayoForm™ IW in a food contact application should request a copy of this document from Innovia Films.

### Health & Safety Guidelines

For Health & Safety information, please refer to literature reference L190.

**Disclaimer:** Innovia Films or any of its affiliated companies (hereinafter 'Innovia Films') declines any liability with respect to the use made by any third party of the information contained herein. The information contained herein represents Innovia Films' best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, the accuracy, the completeness or relevance of the data set out herein). Innovia Films is the sole owner or authorised user of the intellectual property rights relating to the information communicated. The information relating to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted to the client's specific use. The client should perform his own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the client.

RayoForm™ IW – 1 of 2 – 0120

#### Regional Offices:

Europe (UK) Tel +44 16973 42281

Americas (USA) Tel +1 877 822 6273

Asia-Pacific (Aus) Tel +61 3 9303 0600

[www.innoviafilms.com](http://www.innoviafilms.com)

email: [labels@innoviafilms.com](mailto:labels@innoviafilms.com)

™ Trademark of Innovia Films

