

# Propafilm™ FFX85

Polypropylene Alloy

Innovia Films Ltd.

## Message:

Biaxially oriented polypropylene (BOPP) film with a fast seal coating on one side and an aqueous dispersion of polyvinylidene chloride (PVdC) on the other side.  
FFX85/100/125 are suitable for use as a single film or in laminate structures for horizontal form-fill-seal packaging especially in the bakery and cookie markets, requiring strong seals and excellent seal integrity.

| General Information                       |                            |   |                 |
|---|----------------------------|---|-----------------|
| Features                                  | Excellent Printability     |   |                 |
|   | Flavor & Aroma Barrier     |   |                 |
|   | Food Contact Acceptable    |   |                 |
|   | Gas Barrier                |   |                 |
|   | Good Heat Seal             |   |                 |
|   | Hot Tack Strength          |   |                 |
|   | Low to No Water Absorption |   |                 |
|   | Moisture Barrier           |   |                 |
|   | Opticals                   |   |                 |
|   | Very Broad Seal Range      |   |                 |
| Uses                                      | Bi-axially Oriented Film   |   |                 |
|   | Film                       |   |                 |
|   | Food Packaging             |   |                 |
|   | Laminates                  |   |                 |
| Forms                                     | Film                       |   |                 |
| Physical                                  | Nominal Value              | Unit  | Test Method     |
| Molding Shrinkage                         |                            |   | Internal Method |
| Flow : 121°C, 1 min                       | 4.9                        | %   |                 |
| Flow : 129°C, 1 min                       | 8.6                        | %   |                 |
| Across Flow : 121°C, 1 min                | 1.4                        | %   |                 |
| Across Flow : 129°C, 1 min                | 2.0                        | %   |                 |
| Mechanical                                | Nominal Value              | Unit  | Test Method     |
| Coefficient of Friction                   |                            |   | ASTM D1894      |
| vs. Itself - Dynamic, Fast Seal/Fast Seal | 0.50                       |   |                 |
| vs. Itself - Dynamic, PVdC/PVdC           | 0.30                       |   |                 |
| Films                                     | Nominal Value              | Unit  | Test Method     |
| Seal Strength <sup>1</sup>                | 0.19                       | N/mm  | Internal Method |
| Seal Initiation Temperature <sup>2</sup>  | 65.6 to 146                | °C  | Internal Method |
| Oxygen Permeability (25°C, 0% RH)         | 0.16                       | cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr | ASTM F1927      |

| Water Vapor Transmission Rate (38°C, 90% RH) | 4.0           | g/m <sup>2</sup> /24 hr | ASTM F1770      |
|--|---------------|-------------------------|-----------------|
| Film Gauge                                   | 85.0          |                         | Internal Method |
| Yield  | 50.1          | m <sup>2</sup> /kg      | Internal Method |
| Optical                                      | Nominal Value | Unit                    | Test Method     |
| Gloss (45°)                                  | 100           |                         | ASTM D2457      |
| Haze <sup>3</sup>                            | 2.5           | %                       | ASTM D1003      |
| NOTE   |               |                         |                 |


|    |  |
|----|--|
| 1. | 212°F; 1secs; 60psi; Fast Seal Surface |
| 2. | 0.1secs; 60psi, Fast Seal Surface      |
| 3. | Wide angle; 2.5°                       |

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