# Propafilm<sup>™</sup> OVS80

### Polypropylene Alloy

Innovia Films Ltd.

#### Message:

High Speed Overwraping Film with Shrink Tightening Properties

Biaxially oriented polypropylene (BOPP) film co-extruded on both sides with heat sealable polyolefinic copolymers.

OVS80 is suitable for high speed overwrapping and horizontal form-fill applications where pack appearance and wrap tightness are important. Particularly suitable for the tea or confectionery industry, where a medium shrink tightening performance can be required for light weight packs.

| Foo<br>Goo<br>Hea<br>Mo<br>Mo<br>Plea<br>Slip<br>Solv<br>Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA | or & Aroma Barrier<br>d Contact Acceptable<br>od Heat Seal<br>t Sealable<br>sture Barrier |      |                 |
|--|---|------|-----------------|
| Good<br>Heat<br>Mood<br>Pleat<br>Slip<br>Solv<br>Uses Bi-at<br>Food<br>Pac<br>Shri<br>Agency Ratings FDA       | od Heat Seal<br>t Sealable  |      |                 |
| Hea<br>Mo<br>Mo<br>Plea<br>Slip<br>Solv<br>Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA               | t Sealable  |      |                 |
| Mo<br>Mo<br>Plea<br>Slip<br>Solv<br>Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA                      |   |      |                 |
| Mo<br>Plea<br>Slip<br>Solv<br>Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA                            | sture Barrier   |      |                 |
| Plea<br>Slip<br>Solv<br>Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA                                  | Sture Darrier   |      |                 |
| Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA  | sture Resistant   |      |                 |
| Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA  | sing Surface Appearance   |      |                 |
| Uses Bi-a<br>Foo<br>Pac<br>Shri<br>Agency Ratings FDA  |   |      |                 |
| Foo<br>Pac<br>Shri<br>Agency Ratings FDA   | vent Resistant  |      |                 |
| Foo<br>Pac<br>Shri<br>Agency Ratings FDA   |   |      |                 |
| Pac<br>Shri<br>Agency Ratings FDA  | xially Oriented Film  |      |                 |
| Agency Ratings FDA   | d Service Applications  |      |                 |
| Agency Ratings FDA   | kaging  |      |                 |
|  | nk Wrap   |      |                 |
|  |   |      |                 |
|  | FDA 21 CFR 177.1520   |      |                 |
| Forms Film   | Film  |      |                 |
| Processing Method Coe  | Coextrusion   |      |                 |
| Physical Nom   | nal Value   | Unit | Test Method     |
| Molding Shrinkage  |   |      | Internal Method |
| Flow : 80°C, 1 min 3.0   |   | %    |                 |
| Flow : 120°C, 1 min 7.0  |   | %    |                 |
| Across Flow : 80°C, 1 min 2.0  |   | %    |                 |
| Across Flow : 120°C, 1 min 10  |   | %    |                 |
| Mechanical Nom   | nal Value   | Unit | Test Method     |
| Coefficient of Friction  |   |      | ASTM D1894      |
| vs. Itself - Dynamic, Outside/Outside 0.30   |   |      |                 |
| vs. Itself - Static, Outside/Outside 0.40  |   |      |                 |
| Films Nom  | nal Value   | Unit | Test Method     |
| Secant Modulus <sup>1</sup>  |   |      | ASTM D882       |
| 1% Secant, MD 2800   |   |      |                 |

| 1% Secant, TD                            | 3300                              | MPa   |                 |
|--|-----------------------------------|---|-----------------|
| Tensile Strength <sup>2</sup>            |                                   |   | ASTM D882       |
| MD : Yield                               | 180                               | MPa   |                 |
| TD : Yield                               | 210                               | MPa   |                 |
| Tensile Elongation <sup>3</sup>          |                                   |   | ASTM D882       |
| MD : Break                               | 110                               | %   |                 |
| TD : Break                               | 90                                | %   |                 |
| Seal Strength <sup>4</sup>               | 0.15                              | N/mm  | Internal Method |
| Seal Initiation Temperature <sup>5</sup> | 110 to 141                        | °C  | Internal Method |
| Oxygen Permeability (23°C, 0% RH)        | 43                                | cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr | ASTM F1927      |
| Water Vapor Transmission Rate            |                                   |   | ASTM F1770      |
| 23°C, 85% RH                             | 1.1                               | g/m²/24 hr                                    |                 |
| 38°C, 90% RH                             | 6.5                               | g/m²/24 hr                                    |                 |
| Film Gauge                               | 80.0                              |   | Internal Method |
| Yield                                    | 54.9                              | m²/kg   | Internal Method |
| Optical                                  | Nominal Value                     | Unit  | Test Method     |
| Gloss (20°)                              | 130                               |   | ASTM D2457      |
| Haze <sup>6</sup>                        | 1.3                               | %   | ASTM D1003      |
| NOTE                                     |                                   |   |                 |
| 1.                                       | 10%/min                           |   |                 |
| 2.                                       | 50%/min                           |   |                 |
| 3.                                       | 50%/min                           |   |                 |
| 4.                                       | 225°F; 1sec; 15lb/in <sup>2</sup> |   |                 |
| 5.                                       | 2secs; 15lb/in <sup>2</sup>       |   |                 |
| 6.                                       | Wide angle, 2.5°                  |   |                 |

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