

# LL7410A

## Linear Low Density Polyethylene Resin

**Special Characteristics** : InnoPlus LL7410A resin is a linear low density polyethylene with butene comonomers, without slip and antiblock. This grade offers the excellent machinability on conversion lines. Films extruded from InnoPlus LL7410A have high tensile strength, elongation, good toughness and outstanding puncture strength. It is available for tubular blown film processing. Besides, this grade can be used for blending with HDPE as well.

**Typical Applications** : InnoPlus LL7410A is recommended for producing the general purpose films, liners, heavy duty films, food packaging and agricultural films.

### Typical Properties :

| Properties                         | LL7410A   | Unit              | Test Method |
|------------------------------------|-----------|-------------------|-------------|
| <b><u>Physical Properties</u></b>  |           |                   |             |
| Melt Index (190 °C, 2.16 kg)       | 1.0       | g/10 min          | ASTM D1238  |
| Density                            | 0.918     | g/cm <sup>3</sup> | ASTM D792   |
| Melting Point                      | 121       | °C                | ASTM D3418  |
| Vicat Softening Point              | 100       | °C                | ASTM D1525  |
| <b><u>Film Properties*</u></b>     |           |                   |             |
| Tensile Strength at Break (MD/TD)  | 34 / 26   | MPa               | ASTM D882   |
| Elongation at Break (MD/TD)        | 600 / 800 | %                 | ASTM D882   |
| Tensile Modulus, 1% Secant (MD/TD) | 190 / 230 | MPa               | ASTM D882   |
| Dart Impact Strength               | 100       | g                 | ASTM D1709  |
| Tear Strength (MD/TD)              | 100 / 300 | g                 | ASTM D1922  |
| Haze                               | 10        | %                 | ASTM D1003  |
| Gloss (45°)                        | 55        | -                 | ASTM D2457  |

\* Film made on blown film line at blow up ratio 2.5. Gloss (45°) obtained from 40 microns film while other film properties obtained from 25 microns film.

### Processing Condition :

The recommended temperature setting is in the range of 160 - 180 °C for extruder and 170 - 190 °C for die zone.

### FDA Statement :

LLDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

### Disclaimer :

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
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**Note** : Properties reported here are typical values of the product, not to be considered as specifications.

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