

# LL7910A

## Metallocene Linear Low Density Polyethylene Resin

**Special Characteristics** : InnoPlus LL7910A resin is a metallocene polyethylene with hexene comonomers, without slip and antiblock. This grade is an easy processing grade which offers an outstanding balance between processing and film properties. Films extruded from InnoPlus LL7910A have high tensile and dart Impact strength properties. It is suitable for both blown film and cast film processing.

**Typical Applications** : InnoPlus LL7910A is recommended for producing the heavy duty films, stretch films, shrink films, lamination films, liners, food packaging, multi-layer packaging films and freezer packaging films.

### Typical Properties :

| Properties                         | LL7910A   | Unit              | Test Method |
|------------------------------------|-----------|-------------------|-------------|
| <i>Physical Properties</i>         |           |                   |             |
| 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                      | 114       | °C                | ASTM D3418  |
| Vicat Softening Point              | 106       | °C                | ASTM D1525  |
| <i>Film Properties*</i>            |           |                   |             |
| Tensile Strength at Break (MD/TD)  | 60 / 53   | MPa               | ASTM D882   |
| Elongation at Break (MD/TD)        | 490 / 675 | %                 | ASTM D882   |
| Tensile Modulus, 1% Secant (MD/TD) | 191 / 224 | MPa               | ASTM D882   |
| Dart Impact Strength               | 206       | g                 | ASTM D1709  |
| Tear Strength (MD/TD)              | 250 / 450 | g                 | ASTM D1922  |
| Haze                               | 8         | %                 | ASTM D1003  |
| Gloss (45°)                        | 62        | -                 | ASTM D2457  |

\* film properties obtained from 25 microns film which was blown film extruded at blow up ratio 2.5

### 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 :

mLLDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 regulation for polyethylene used in articles that contact food except 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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