

# LL7905AO

Metallocene Polyethylene Resin

**Special Characteristics :** InnoPlus LL7905AO is easy processing metallocene polyethylene (mPE) with hexene comonomer designed for use in flexible packaging applications. This grade offers superior stiffness and processability for high-performance film applications, while balancing mechanical properties, clarity and shrink performance to serve various types of flexible packaging.

**Typical Applications :** InnoPlus LL7905AO is recommended for food and non-food packaging, shrink films, heavy duty bag, agricultural films and extrusion tube.

**Additives :** No Slip and No Antiblock

**Typical Properties :**

| Properties                                                    | LL7905AO  | Unit              | Test Method |
|---------------------------------------------------------------|-----------|-------------------|-------------|
| Physical Properties (Based on pellets and press-molded sheet) |           |                   |             |
| Melt Flow Rate (190 °C, 2.16 kg)                              | 0.5       | g/10 min          | ASTM D1238  |
| Density                                                       | 0.935     | g/cm <sup>3</sup> | ASTM D792   |
| Melting Temperature                                           | 127       | °C                | ASTM D3418  |
| Vicat Softening Point                                         | 119       | °C                | ASTM D1525  |
| Film Properties* (Based on blown film)                        |           |                   |             |
| Tensile Strength at Break (MD/TD)                             | 45/ 50    | MPa               | ASTM D882   |
| Elongation at Break (MD/TD)                                   | 660 / 810 | %                 | ASTM D882   |
| Tensile Modulus, 1% Secant (MD/TD)                            | 510 / 550 | MPa               | ASTM D882   |
| Dart Impact Strength                                          | 110       | g                 | ASTM D1709  |
| Tear Strength (MD/TD)                                         | 20 / 160  | g                 | ASTM D1922  |
| Haze                                                          | 15        | %                 | ASTM D1003  |
| Gloss (45°)                                                   | 42        | -                 | 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.

## Recommendation :

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

## FDA Statement :

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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*Note : Properties reported here are typical values of the product, not to be considered as specifications.*

*GC makes no representations as to the accuracy or completeness of the information contained herein.*