

# LL7835A

Metallocene Linear Low Density Polyethylene Resin

**Special Characteristics :** InnoPlus LL7835A is a metallocene polyethylene with hexene comonomers, without slip and antiblock. This grade is a high performance grade which offer an outstanding mechanical properties and down-gauging. Films extruded from InnoPlus LL7835A have an excellent tensile and dart impact strength properties. It is suitable for both cast mono / multilayer and blown film.

**Typical Applications :** InnoPlus LL7835A is recommended for producing the heavy duty films, cast stretch films, liners.

**Additives :** No Slip and No Antiblock

**Typical Properties :**

| Properties   | LL7835A |       | Unit              | Test Method |
|--|---------|-------|-------------------|-------------|
| <b>Physical Properties (Based on pellets and press-molded sheet)</b> |         |       |                   |             |
| Melt Index (190 °C, 2.16 kg)   | 3.5     | 3.5   | g/10 min          | ASTM D1238  |
| Density  | 0.920   | 0.920 | g/cm <sup>3</sup> | ASTM D792   |
| Melting Temperature  | 118     | 118   | °C                | ASTM D3418  |
| Vicat Softening Point  | 105     | 105   | °C                | ASTM D1525  |

| Film Properties                    | Based on cast film* | Based on blown film** |     |            |
|------------------------------------|---------------------|-----------------------|-----|------------|
| Tensile Strength at Break (MD/TD)  | 61 / 43             | 45 / 40               | MPa | ASTM D882  |
| Elongation at Break (MD/TD)        | 610 / 630           | 850 / 900             | %   | ASTM D882  |
| Tensile Modulus, 1% Secant (MD/TD) | 185 / 200           | 230 / 250             | MPa | ASTM D882  |
| Dart Impact Strength               | 200                 | 140                   | g   | ASTM D1709 |
| Tear Strength (MD/TD)              | 210 / 400           | 300 / 400             | g   | ASTM D1922 |
| Haze                               | 3.9                 | 19                    | %   | ASTM D1003 |
| Gloss (45°)                        | 81                  | 27                    | -   | ASTM D2457 |

\* Film made on cast film line. Film properties obtained from 25 microns film.

\*\*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.

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability what so ever for the accuracy and completeness of such information. We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

**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.