

# LL7810D2V

Metallocene Linear Low density Polyethylene Resin

**Special Characteristics:** InnoPlus LL7810D2V is metallocene linear low density polyethylene with hexene comonomers, with slip and antiblock. This grade is a high performance grade which offer an outstanding toughness and impact properties along with excellent heat sealing performance and low seal initiation. It is suitable for both blown mono and multilayer film.

**Typical Applications:** InnoPlus LL7810D2V is recommended for lamination films, food packaging, multilayer packaging film, stand up pouches

**Additives :** Slip 1000 ppm and Antiblock 5000 ppm

**Typical Properties:**

| Properties                                                           | LL7810D2V | Unit              | Test Method |
|----------------------------------------------------------------------|-----------|-------------------|-------------|
| <b>Physical Properties (Based on pellets and press-molded sheet)</b> |           |                   |             |
| Melt Index (190 °C, 2.16 kg)                                         | 1         | g/10 min          | ASTM D1238  |
| Density                                                              | 0.915     | g/cm <sup>3</sup> | ASTM D792   |
| Melting Temperature                                                  | 119       | °C                | ASTM D3418  |
| Vicat Softening Point                                                | 95        | °C                | ASTM D1525  |
| <b>Film Properties* (Based on blown film)</b>                        |           |                   |             |
| Tensile Strength at Break (MD/TD)                                    | 45 / 45   | MPa               | ASTM D882   |
| Elongation at Break (MD/TD)                                          | 570 / 580 | %                 | ASTM D882   |
| Tensile Modulus, 1% Secant (MD/TD)                                   | 230 / 200 | MPa               | ASTM D882   |
| Dart Impact Strength                                                 | 540       | g                 | ASTM D1709  |
| Tear Strength (MD/TD)                                                | 100 / 100 | g                 | ASTM D1922  |
| Haze                                                                 | 10        | %                 | ASTM D1003  |
| Gloss (45°)                                                          | 60        | -                 | 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.

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