

LL7810D

Metallocene Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL7810D resin is a metallocene polyethylene with hexene comonomers, with high content of slip and antiblock. This grade is a high performance grade which offer an outstanding mechanical properties and down-gauging. Films extruded from InnoPlus LL7810D have an excellent tensile strength properties. It is suitable for both blown film and cast film processing.

Typical Applications : InnoPlus LL7810D is recommended for producing heavy duty films, lines, lamination films, food packaging, multi-layer packaging film and freezer packaging films.

Additives : Slip 500 ppm and Antiblock 1500 ppm

Typical Properties :

| Properties | LL7810D | Unit | Test Method |
|--|---------|-------------------|-------------|
| Physical Properties (Based on pellets and press-molded sheet) | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 1.0 | g/10 min | ASTM D1238 |
| Density | 0.920 | g/cm ³ | ASTM D792 |
| Melting Temperature | 120 | °C | ASTM D3418 |
| Vicat softening point | 107 | °C | ASTM D1525 |

Film Properties* (Based on blown film)

| | | | |
|------------------------------------|-----------|-----|------------|
| Tensile Strength at Break (MD/TD) | 54 / 54 | MPa | ASTM D882 |
| Elongation at Break (MD/TD) | 600 / 710 | % | ASTM D882 |
| Tensile Modulus, 1% Secant (MD/TD) | 230 / 290 | MPa | ASTM D882 |
| Dart Impact Strength | >423 | g | ASTM D1709 |
| Tear Strength (MD/TD) | 300 / 400 | g | ASTM D1922 |
| Haze | 15 | % | ASTM D1003 |
| Gloss (45°) | 49 | - | 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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