

LL7410G1

Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL7410G1 resin is a linear low density polyethylene with butene comonomers, with low content of slip and antiblock added. Films extruded from InnoPlus LL7410G1 has extremely low gel level with superior clarity. This grade offers high tensile strength, elongation, good toughness and outstanding puncture strength.

Typical Applications : InnoPlus LL7410G1 is recommended for producing the lamination films, general purpose films, liners, food packaging, heavy duty and agricultural films.

Additives : Slip 400 ppm and Antiblock 1500 ppm

Typical Properties :

| Properties | LL7410G1 | 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 | 121 | °C | ASTM D3418 |
| Vicat Softening Point | 101 | °C | ASTM D1525 |

Film Properties* (Based on blown film)

| | | | |
|------------------------------------|-----------|-----|------------|
| Tensile Strength at Break (MD/TD) | 34 / 26 | MPa | ASTM D882 |
| Elongation at Break (MD/TD) | 600 / 800 | % | ASTM D882 |
| Tensile Modulus, 1% Secant (MD/TD) | 190 / 230 | MPa | ASTM D882 |
| Dart Impact Strength | 90 | g | ASTM D1709 |
| Tear Strength (MD/TD) | 100 / 300 | g | ASTM D1922 |
| Haze | 11 | % | ASTM D1003 |
| Gloss (45°) | 50 | - | 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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