

LUCENE™ XM4106 Series

Metallocene LLDPE

Characteristics

- Excellent Stiffness and Toughness
- Co-monomer : 1-Hexene
- Fluoropolymers, or fluorine-containing compounds, and TnPP is not intentionally added to LUCENE™ XM4106 Series
- Additives

| Grade | Slip | Anti-Block | Processing Aid | Antioxidant |
|----------|------|------------|----------------|-------------|
| XM4106BN | - | - | - | O |

Application

- Food Packaging, Lamination Film, Heavy Duty Bag, Industrial Packaging Film

Properties

| Item | Test Method | Unit | Typical Value |
|----------------------------------|-------------|--------------------|---------------|
| Resin Properties | | | |
| Density | ASTM D1505 | g/cm ³ | 0.926 |
| Melt Index (190°C/2.16kg) | ASTM D1238 | g/10min | 1.0 |
| Peak Melting Temperature | LG Method | °C | 125 |
| Film Properties | | | |
| Tensile strength at Break MD/TD | ASTM D882 | kg/cm ² | 500 / 350 |
| Elongation at Break MD/TD | ASTM D882 | % | 400 / 600 |
| Secant Modulus - 1% Secant MD/TD | ASTM D882 | kg/cm ² | 2,900 / 3,200 |
| Dart Impact Strength | ASTM D1709A | g | 500 |
| Elmendorf Tear Strength MD/TD | ASTM D1922 | g | 120 / 550 |
| Haze | ASTM D1003 | % | 25 |

1) Film properties are measured on 25 μ m film specimen*, and properties may vary depending on processing equipment & conditions.

* B.U.R : 2.5, Processing temperature : 170°C

2) The data in this table are typical values, and not guaranteed specification

Processing Information

- Processing temperature : 150 ~ 190°C
- Blow up ratio : 1.5 ~ 3.0
- Film thickness (μ m) : 20 ~ 200