

TITANLENE® LDF 201FG

Low Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

LDF201FG is a low density polyethylene resin for film extrusion. LDF201FG has low slip and anti-block additives. LDF201FG meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 2.1 & (c) 2.2.

APPLICATIONS:

Produce film, T-shirt carrier bags, Display packaging.

Characteristics:

Good optical and good mechanical properties.

| General Information | | | |
|---|----------------------------|-------------------|-------------|
| Additive | Antiblock | | |
| | Slip | | |
| Features | Antiblocking | | |
| | Low Density | | |
| | Low Slip | | |
| | Opticals | | |
| Uses | Bags | | |
| | Film | | |
| | Packaging | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) 2.1 | | |
| | FDA 21 CFR 177.1520(c) 2.2 | | |
| Processing Method | Film Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.922 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.0 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 30 | µm | ASTM D882 |
| Secant Modulus | | | |
| 1% Secant, MD : 30 µm, Blown Film | 206 | MPa | |
| 1% Secant, TD : 30 µm, Blown Film | 226 | MPa | ASTM D882 |
| Tensile Strength | | | |
| MD : Break, 30 µm, Blown Film | 26.5 | MPa | |
| TD : Break, 30 µm, Blown Film | 21.6 | MPa | ASTM D882 |
| Tensile Elongation | | | |
| MD : Break, 30 µm, Blown Film | 310 | % | |

| TD : Break, 30 µm,Blown Film | 580 | % | |
|--------------------------------------|---------------|------|-------------|
| Dart Drop Impact (30 µm, Blown Film) | 60 | g | ASTM D1709 |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 30 µm, Blown Film | 180 | g | |
| TD : 30 µm, Blown Film | 120 | g | |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 95.0 | °C | ASTM D1525 |
| Optical | Nominal Value | Unit | Test Method |
| Haze (30.0 µm, Blown Film) | 7.0 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 160 to 190 | °C | |

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