Technical Data Sheet

# *Lupolen* 3026F

Low Density Polyethylene

## Product Description

*Lupolen* 3026 F is an additivated, low density polyethylene. It contains slip agent. It is characterized by a good melt strength leading to a good bubble stability during blown film extrusion.
LyondellBasell customers report that films made from *Lupolen* 3026 F exhibit a good shrinkage performance.
*Lupolen* 3026 F provides the option to produce films with good optical and mechanical properties.
It is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

## Regulatory Status

For regulatory compliance information, see *Lupolen* 3026F Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | Europe |
| **Application** | Bags & Pouches; Food Packaging Film; Lamination Film; Shrink Film |
| **Market** | Flexible Packaging |
| **Processing Method** | Blown Film |
| **Attribute** | Good Heat Seal; Good Processability; Low Friction; Superior Optical Properties; Unspecified Slip |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 0.9 | g/10 min | ISO 1133-1 |
| Density | 0.927 | g/cm³ | ISO 1183-1 |
| **Mechanical** | | | |
| Tensile Modulus | 300 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 12 | MPa | ISO 527-1, -2 |
| **Film** | | | |
| Dart Drop Impact Strength, F50 | 120 | g | ASTM D1709 |
| Tensile Strength | | | |
| MD | 27 | MPa | ISO 527-1, -3 |
| TD | 22 | MPa | ISO 527-1, -3 |
| Tensile Strain at Break | | | |
| MD | 300 | % | ISO 527-1, -3 |
| TD | 600 | % | ISO 527-1, -3 |
| Coefficient of Friction | <0.3 | | ISO 8295 |
| **Impact** | | | |
| Failure Energy | 4 | J/mm | DIN 53373 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A/50 N) | 100 | °C | ISO 306 |
| Peak Melting Point | 114 | °C | ISO 11357-3 |

| | | | |
|---|---|---|---|
| **Optical** | | | |
| Haze, (50 µm) | <7 | % | ASTM D1003 |
| Gloss | | | |
| (20°) | >50 | | ASTM D2457 |
| (60°) | >100 | | ASTM D2457 |
| **Additive** | | | |
| Slip, Erucamide | 500 | ppm | LYB Method |
| **Additional Information** | | | |
| Test Specimen | Film | | |
| Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2.5:1. | | | |
| **Processing Parameters** | | | |
| Extrusion Temperature | 170-220 | °C | |

## Notes

These are typical property values not to be construed as specification limits.