

Technical Data Sheet

Lupolen 3026H

Low Density Polyethylene



Product Description

Lupolen 3026 H is an additivated, low density polyethylene. It contains slip agent. It is characterized by a good balance between processability and mechanical properties.

LyondellBasell customers report that films made from Lupolen 3026 H exhibit a glossy surface finish.

Lupolen 3026 H provides the option to produce films with very good optical 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 3026H [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) | 2.0 | g/10 min | ISO 1133-1 |
| Density | 0.928 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 300 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 13 | MPa | ISO 527-1, -2 |
| Film | | | |
| Dart Drop Impact Strength, F50 | 110 | g | ASTM D1709 |
| Tensile Strength | | | |
| MD | 25 | MPa | ISO 527-1, -3 |
| TD | 18 | MPa | ISO 527-1, -3 |
| Tensile Strain at Break | | | |
| MD | 350 | % | ISO 527-1, -3 |
| TD | 600 | % | ISO 527-1, -3 |
| Coefficient of Friction | <0.2 | | 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 3146 |

| Optical | | |
|---|------------|------------|
| Haze, (50 μm) | <7 % | ASTM D1003 |
| Gloss | | |
| (20°) | >70 | ASTM D2457 |
| (60°) | >110 | 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 170°C and a blow-up ratio of 2.5:1. | | |
| Processing Parameters | | |
| Extrusion Temperature | 160-200 °C | |

Notes

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