Technical Data Sheet

# *Lupolen* 3026K

Low Density Polyethylene

## Product Description

*Lupolen* 3026 K is an additivated, low density polyethylene. It contains slip and anti-blocking agent.
It is characterized by a good processability.
LyondellBasell customers report that films made from *Lupolen* 3026 K exhibit a glossy surface finish.
*Lupolen* 3026 K 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.

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|---|---|
| **Application** | Food Packaging Film; Lamination Film; Shrink Film |
| **Market** | Flexible Packaging |
| **Processing Method** | Blown Film; Cast Film |
| **Attribute** | Good Heat Seal; Good Processability; Low Friction; Superior Optical Properties; Unspecified Antiblocking; Unspecified Slip |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 4.0 | g/10 min | ISO 1133-1 |
| Density | 0.928 | g/cm³ | 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 | 90 | g | ASTM D1709 |
| Tensile Strength | | | |
| MD | 20 | MPa | ISO 527-1, -3 |
| TD | 15 | MPa | ISO 527-1, -3 |
| Tensile Strain at Break | | | |
| MD | 300 | % | ISO 527-1, -3 |
| TD | 550 | % | ISO 527-1, -3 |
| Coefficient of Friction | <0.2 | | ISO 8295 |
| **Impact** | | | |
| Failure Energy | 3.5 | J/mm | DIN 53373 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A/50 N) | 97 | °C | ISO 306 |
| Peak Melting Point | 114 | °C | ISO 11357-3 |

| | | | |
|---|---|---|---|
| **Optical** | | | |
| Haze, (50 µm) | <8 | % | ASTM D1003 |
| Gloss | | | |
| (20°) | >70 | | ASTM D2457 |
| (60°) | >110 | | ASTM D2457 |
| **Additive** | | | |
| Slip, Erucamide | 700 | ppm | LYB Method |
| Antiblock, Natural Silica | 1000 | ppm | ISO 3451-1 |
| **Additional Information** | | | |
| Test Specimen | | | |
| 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 | 150-190 | °C | |

## Notes

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