

# Lupolen 3026 K

Low Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 3026 K is an additivated, low density polyethylene with high rigidity. It contains slip and anti-blocking agent. It is delivered in pellet form. Foodlaw compliance information about this product can be found in separate product documentation. This product is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Erucamide Lubricating Additive (700 ppm) 2		
	Anti-caking agent (1000 ppm) 3		
Features	Low friction coefficient		
	Rigid, good		
	smoothness		
	Optical		
	Anti-caking property		
	Workability, good		
Uses	Films		
	Protective coating		
	Laminate		
	cast film		
	Food packaging		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	300	MPa	ISO 527-2
Tensile Stress (Yield)	13.0	MPa	ISO 527-2
Coefficient of Friction (Blown Film)	< 0.20		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	0.6-1.6 mil (15-40 µ)		
Tensile Strength			ISO 527-3

MD: 50 µm, blown film	20.0	MPa	ISO 527-3
TD: 50 µm, blown film	15.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	300	%	ISO 527-3
TD: Broken, 50 µm, blown film	550	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	90	g	ASTM D1709
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	97.0	°C	ISO 306/A50
Melting Temperature (DSC)	114	°C	ISO 3146
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss			ASTM D2457
20, 50.0 µm, blown film	> 70		ASTM D2457
60, 50.0 µm, blown film	> 110		ASTM D2457
Haze (50.0 µm, Blown Film)	< 8.0	%	ASTM D1003
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Erucamide	0.070	%	DIN 51454
Failure Energy (50.0 µm)	35.0	J/cm	DIN 53373
Natural Silica	0.10	%	ISO 3451-1
Melt temperature-Film	150 - 190	°C	

Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 170°C and a blow-up ratio of 2:1.

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

