

# Lupolen 3026 H

Low Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 3026 H is an additivated, low density polyethylene with high rigidity. It contains slip agent. It is delivered in pellet form. Foodlaw compliance information about this product can be found in separate product documentation.

General Information			
Additive	Erucamide Lubricating Additive (500 ppm) 2		
Features	Low friction coefficient		
	Rigidity, high		
	Rigid, good		
	smoothness		
	Optical		
	Workability, good		
Uses	Films		
	Bags		
	cast film		
	Food packaging		
	Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	51		ISO 868
Ball Indentation Hardness (H 49/30)	21.0	MPa	ISO 2039-1
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	0.8-2.4 mil (20-60 µm)		
Tensile Strength			ISO 527-3

MD: 50 µm, blown film	25.0	MPa	ISO 527-3
TD: 50 µm, blown film	18.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	350	%	ISO 527-3
TD: Broken, 50 µm, blown film	600	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	110	g	ASTM D1709
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	100	°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)	< 7.0	%	ASTM D1003
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Failure Energy (50.0 µm)	40.0	J/cm	DIN 53373
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 170°C and a blow-up ratio of 1:2.5.			
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	160 - 200	°C	

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