

# Lupolen 3010 D

Low Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 3010 D is a non-additivated, low density polyethylene. 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			
Features	Rigid, good		
	Optical		
	Workability, good		
	Good toughness		
	No additive		
Uses	Films		
	Protective coating		
	Bags		
	Food packaging		
	Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
	Extrusion blow molding		
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)	0.25	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance <sup>1</sup>	15.0	hr	
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)	> 0.70		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	2.4-8.7 mil (60-220 µ)		
Tensile Strength			ISO 527-3
MD: 50 µm, blown film	30.0	MPa	ISO 527-3
TD: 50 µm, blown film	27.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	250	%	ISO 527-3
TD: Broken, 50 µm, blown film	600	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	180	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ISO 306/A50
Melting Temperature (DSC)	114	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
20, 50.0 µm, blown film	> 35		ASTM D2457
60, 50.0 µm, blown film	> 90		ASTM D2457
Haze (50.0 µm, Blown Film)	< 7.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Failure Energy - Blown Film (70.0 µm)	50.0	J/cm	DIN 53373
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 200°C and a blow-up ratio of 1:2.5.			
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 220	°C	
NOTE			
1.	Elenac		

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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

