Lupolen 2426 K

Low Density Polyethylene

LyondellBasell Industries

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Technical Data

Product Description

Lupolen 2426 K is an additivated, low density polyethylene. 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

Material Status	• Commercial: Active		
Literature [1]	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Lupolen		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Antiblock (1800 ppm) [2]	• Erucamide Slip (600 ppm)	
Features	• Antiblocking • Good Optical Properties	• Good Processability • Low Friction	• Slip
Uses	• Cast Film • Film	• Food Packaging • Industrial Applications	• Packaging • Shrink Wrap
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	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	260	MPa	ISO 527-2
Tensile Stress (Yield)	11.0	MPa	ISO 527-2
Coefficient of Friction	< 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	19.0	MPa	
TD : 50 µm, Blown Film	16.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 50 µm, Blown Film	300	%	
TD : Break, 50 µm, Blown Film	600	%	
Dart Drop Impact (50 µm, Blown Film)	100	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	92.0	°C	ISO 306/A50
Melting Temperature (DSC)	111	°C	ISO 3146
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
20°, 50.0 µm, Blown Film	> 50		
60°, 50.0 µm, Blown Film	> 100		
Haze (50.0 µm, Blown Film)	< 9.0	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Failure Energy (50.0 µm)	35.0	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.

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Extrusion	Nominal Value	Unit
Melt Temperature	150 to 190	°C

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Natural Silica

[3] Typical properties: these are not to be construed as specifications.

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Where to Buy

Supplier

LyondellBasell Industries
Wilmington, DE USA
Telephone: 713-309-7200
Web: http://polymers.lyondellbasell.com/portal/site/basell/

Distributor

ALBIS Plastic
ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.
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