Lupolen 2426H

Low Density Polyethylene

LyondellBasell Industries

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Technical Data

Product Description

Lupolen 2426 H is an additivated, low density polyethylene. It contains slip and anti-blocking agent. It is characterized by a good balance between processability and mechanical properties. Films made from Lupolen 2426 H exhibit good optical properties. It is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet		
Search for UL Yellow Card	• LyondellBasell Industries • Lupolen		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Antiblock: 1000 ppm [Natural Silica] [2]	• Erucamide Slip: 500 ppm	
Features	• Antiblocking • Good Heat Seal	• Good Optical Properties • Good Processability	• Low Friction • Slip
Uses	• Bags • Film • Flexible Packaging	• Food Packaging • Hygiene • Liners	• Pouches - Flexible Packaging • Shrink Wrap
Processing Method	• Blown Film	• Cast Film	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.924 g/cm³	0.924 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9 g/10 min	1.9 g/10 min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	37700 psi	260 MPa	ISO 527-1
Tensile Stress (Yield)	1600 psi	11.0 MPa	ISO 527-2
Coefficient of Friction	< 0.20	< 0.20	ISO 8295
Films	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Film Thickness - Tested [4]	2.0 mil	50 µm	
Tensile Strength			ISO 527-3
MD	3630 psi	25.0 MPa	
TD	3050 psi	21.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break	250 %	250 %	
TD : Break	600 %	600 %	
Dart Drop Impact [5]	110 g	110 g	ASTM D1709
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Vicat Softening Temperature	201 °F	94.0 °C	ISO 306/A50
Melting Temperature	232 °F	111 °C	ISO 11357-3
Optical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Gloss			ASTM D2457
20°	> 50	> 50	
60°	> 100	> 100	
Haze (1.97 mil (50.0 µm))	< 8.00 %	< 8.00 %	ASTM D1003
Additional Information	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Failure Energy	74.9 ft·lb/in	40.0 J/cm	DIN 53373

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	320 to 392 °F	160 to 200 °C

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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] ISO 3451-1

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

[4] Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2.5:1

[5] F50

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Where to Buy

Supplier

LyondellBasell Industries
Wilmington, Wilmington USA
Telephone: 713-309-7200
Web: https://www.lyondellbasell.com/

Distributor

Biesterfeld Plastic GmbH
Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.
Telephone: +49-40-32-00-80
Web: https://www.biesterfeld.com/
Availability: Africa & Middle East, Europe

Ultrapolymers
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Telephone: +32-11-57-95-57
Web: http://www.ultrapolymers.com/
Availability: Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, Ukraine, United Kingdom

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