

Lupolen 2427 H

Low Density Polyethylene
LyondellBasell Industries

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Technical Data

Product Description

Lupolen 2427 H is an additivated, low density polyethylene. It contains an antioxidant, 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	• Antioxidant	• Erucamide Slip (500 ppm)
Features	• Antiblocking • Good Processability	• Low Friction • Opticals	• Slip
Uses	• Bags • Cast Film	• Film • Food Packaging	• Shrink Wrap
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	

Physical	Nominal Value Unit	Test Method
Density	0.924 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9 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	20-60 µm	
Tensile Strength		ISO 527-3
MD : 50 µm, Blown Film	25.0 MPa	
TD : 50 µm, Blown Film	21.0 MPa	
Tensile Elongation		ISO 527-3
MD : Break, 50 µm, Blown Film	250 %	
TD : Break, 50 µm, Blown Film	600 %	
Dart Drop Impact (50 µm, Blown Film)	110 g	ASTM D1709

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	94.0 °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
Erucamide	0.050 %	DIN 51454
Failure Energy (50.0 µm)	40.0 J/cm	DIN 53373
Natural Silica	0.10 %	ISO 3451-1

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

Extrusion	Nominal Value Unit
Melt Temperature	160 to 200 °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 Typical properties: these are not to be construed as specifications.



Where to Buy

Supplier

LyondellBasell Industries

Wilmington, DE USA

Telephone: 713-309-7200

Web: <http://polymers.lyondellbasell.com/portal/site/basell/>

Distributor

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: 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, United Kingdom

Reseller

A Reseller is not a distributor authorized by the Supplier.

Honrun International Co., Ltd.

Telephone: 852-69575415

Web: <http://www.ponci.com.cn/eng/>

Availability: China

