



## Lupolen 2427 H

### Polyethylene, Low Density

#### 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.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Asia-Pacific, Africa-Middle East
<b>Processing Methods</b>	Blown Film, Cast Film
<b>Features</b>	Unspecified Antiblocking , Low Friction, Opticals, Good Processability, Unspecified Slip
<b>Typical Customer Applications</b>	Bags & Pouches, Blown Film, Cast Film, Film, Food Packaging Film, Shrink Film

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.924	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	1.9	g/10 min
<b>Mechanical</b>			
Dart drop impact (50µm, Blown Film)	ASTM D 1709	110	g
Tensile Modulus	ISO 527-1, -2	260	MPa
Tensile Stress at Yield	ISO 527-1, -2	11.0	MPa
Tensile Strength	ISO 527-1, -3	25.0	MPa
<i>Note: MD</i>		21.0	MPa
<i>Note: TD</i>			
Tensile Strain at Break	ISO 527-1, -3	250	%
<i>Note: MD</i>		600	%
<i>Note: TD</i>			

**Thermal**

Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	94.0	°C
Melting Temperature	ISO 3146	111	°C

**Optical**

Haze (50µm)	ASTM D 1003	<9	%
Gloss	ASTM D 2457		
(20°, 50µm)		>50	
(60°, 50µm)		>100	

**Film**

Melt Temperature		160 to 200	°C
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**Additional Properties**

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.

Natural Silica, ISO 3451-1: 0.1%

Erucamide, DIN 51454: 0.05%

Failure Energy, DIN 53373, 50 µm: 4 J/mm

Coefficient of Friction, ISO 8295: <20%

Recommended Film Thickness: 20 to 60 µm

**Notes**

Typical properties; not to be construed as specifications.