

## Technical Data Sheet

### Lupolen 2426F



Low Density Polyethylene

#### Product Description

Lupolen 2426 F is an additivated, low density polyethylene. It contains slip and anti-blocking agent. It is characterized by a good melt strength leading to a good bubble stability during blown film extrusion. It is delivered in pellet form.

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

<b>Application</b>	Bags & Pouches; Food Packaging Film; Hygiene Film; Shrink Film
<b>Market</b>	Flexible Packaging
<b>Processing Method</b>	Blown Film
<b>Attribute</b>	Good Heat Seal; Good Melt Strength; Good Optical Properties; Good Processability; Low Friction; Unspecified Antiblocking; Unspecified Slip

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	0.75	g/10 min	ISO 1133-1
Density	0.924	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	260	MPa	ISO 527-1, -2
Tensile Stress at Yield	11	MPa	ISO 527-1, -2
<b>Film</b>			
Dart Drop Impact Strength, F50	150	g	ASTM D1709
<b>Tensile Strength</b>			
MD	24	MPa	ISO 527-1, -3
TD	22	MPa	ISO 527-1, -3
<b>Tensile Strain at Break</b>			
MD	300	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Coefficient of Friction	<0.2		ISO 8295
<b>Impact</b>			
Failure Energy	5.5	J/mm	DIN 53373
<b>Thermal</b>			
Vicat Softening Temperature, (A/50)	96	°C	ISO 306
Peak Melting Point	111	°C	ISO 11357-3
<b>Optical</b>			
Haze, (50 µm)	<8	%	ASTM D1003

Gloss		
(20°)	>40	ASTM D2457
(60°)	>90	ASTM D2457
<b>Additive</b>		
Slip, Erucamide	500 ppm	LYB Method
Antiblock, Natural Silica	900 ppm	ISO 3451-1
<b>Additional Information</b>		
Test Specimen	Film	
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.		
<b>Processing Parameters</b>		
Extrusion Temperature	170-220 °C	