

**Product Description**

Lupolen 2426 F 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.

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East      • Asia Pacific      • Europe
Filler / Reinforcement	• Silica Filler, 0.090% Filler by Weight
Additive	• Antiblock      • Erucamide Slip (500 ppm) <sup>1</sup> • Slip
Features	• Antiblocking      • Low Friction      • Slip • Good Processability      • Opticals
Uses	• Bags      • Food Packaging      • Shrink Wrap • Film      • Protective Coatings
Processing Method	• Blown Film

Physical	Nominal Value Unit	Test Method
Density	0.924 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75 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	1-3.1 mil (25-80 µ)	
Tensile Strength		ISO 527-3
MD: 50 µm, Blown Film	26.0 MPa	
TD: 50 µm, Blown Film	20.0 MPa	
Tensile Elongation		ISO 527-3
MD: Break, 50 µm, Blown Film	600 %	
TD: Break, 50 µm, Blown Film	300 %	
Dart Drop Impact (50 µm, Blown Film)	150 g	ASTM D1709

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	48	ISO 868
Ball Indentation Hardness (H 49/30)	18.0 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	96.0 °C	ISO 306/A50
Melting Temperature (DSC)	111 °C	ISO 3146

Optical	Nominal Value Unit	Test Method
Gloss		ASTM D2457
20°, 50.0 µm	> 40	
60°, 50.0 µm	> 90	
Haze (50.0 µm)	< 9.0 %	ASTM D1003

Additional Information	Nominal Value Unit	Test Method
Failure Energy (50.0 µm)	55.0 J/cm	DIN 53373
Natural Silica	0.090 %	ISO 3451-1
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	170 to 220 °C

**Notes**

<sup>1</sup> DIN 51451

<sup>2</sup> Typical properties: these are not to be construed as specifications.