



## Lupolen 2426 F

### Polyethylene, Low Density

#### Product Description

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO ASTM
<b>Availability</b>	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
<b>Processing Method</b>	Extrusion, Film, Blown
<b>Features</b>	Antiblocking, Unspecified, Optical, Processability, Good, Slip, Unspecified, Friction, Low
<b>Typical Customer Applications</b>	Bags, Film, Shrink Film, Blown 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	0.75 g/10 min
<b>Mechanical</b>		
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	26.0 MPa 20.0 MPa
Tensile Strain at Break	ISO 527-1, -3	600 % 300 %
<b>Hardness</b>		
Shore hardness (Shore D)	ISO 868	48
Ball indentation hardness (H 49/30)	ISO 2039-1	18.0 MPa
<b>Thermal</b>		
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	96.0 °C
Melting Temperature	ISO 3146	111 °C
<b>Film</b>		
Melt Temperature		170 to 220 °C

#### Notes

Typical properties; not to be construed as specifications.

#### 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 2:1.

Natural Silica, ISO 3451-1: 0.09%

Erucamide, DIN 51451: 0.05%

Failure Energy, DIN 53373, 50µm: 5.5 J/mm

Coefficient of Friction, ISO 8295: 25%

Recommended Thickness: 25 to 80 µm

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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector

Release Date: 24 Mar 2004