



Lupolen 2420 F

Polyethylene, Low Density

Product Description

Lupolen 2420 F is a non-additivated, low density polyethylene. 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

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Africa-Middle East
Processing Method	Blown Film, Injection Molding, Extrusion Blow Molding
Features	Good Heat Seal , Good Melt Strength , Opticals, Good Processability
Typical Customer Applications	Bags & Pouches, Blow Moulding Applications, Film, Shrink Film, Blown Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.923	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.75	g/10 min
Mechanical			
Dart drop impact (50µm, Blown Film)	ASTM D 1709	150	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	26.0	MPa
<i>Note: MD</i>		24.0	MPa
<i>Note: TD</i>			
Tensile Strain at Break	ISO 527-1, -3	300	%
<i>Note: MD</i>		600	%
<i>Note: TD</i>			

Thermal

Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	96.0	°C
Melting Temperature	ISO 3146	111	°C

Optical

Haze (50µm)	ASTM D 1003	<8	%
Gloss	ASTM D 2457		
(20°, 50µm)		>40	
(60°, 50µm)		>90	

Film

Melt Temperature		170 to 220	°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.

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

Coefficient of Friction, ISO 8295: >80%

Recommended Thickness: 25 to 100 µm

Notes

Typical properties; not to be construed as specifications.