

Technical Data Sheet

Lupolen 3420J

Low Density Polyethylene

Product Description

Lupolen 3420 J is a non-additivated, low density polyethylene. It is characterized by a good processability and high stiffness. LyondellBasell customers report that *Lupolen 3420 J* is used in label film and that films made from *Lupolen 3420 J* exhibit a glossy surface finish. It is delivered in pellet form.

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

Application	Food Packaging Film; Hygiene Film; Lamination Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film
Attribute	Good Processability; High Gloss; High Stiffness; Superior Optical Properties

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	3.0	g/10 min	ISO 1133-1
Density	0.934	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	480	MPa	ISO 527-1, -2
Tensile Stress at Yield	16	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	90	g	ASTM D1709
Tensile Strength			
MD	22	MPa	ISO 527-1, -3
TD	20	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	500	%	ISO 527-1, -3
TD	650	%	ISO 527-1, -3
Coefficient of Friction	>0.65		ISO 8295
Impact			
Failure Energy	3	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50)	109	°C	ISO 306
Peak Melting Point	119	°C	ISO 11357-3
Optical			
Haze, (50 µm)	<10	%	ASTM D1003

Gloss		
(20°)	>85	ASTM D2457
(60°)	>115	ASTM D2457
Additional Information		
Test Specimen	Film	
Film properties tested using 50 μm thickness blown film extruded at a melt temperature of 170°C and a blow-up ratio of 2.5:1.		
Processing Parameters		
Extrusion Temperature	150-190 °C	