



Lupolen 3020 H PLUS

Polyethylene, Low Density

Product Description

Lupolen 3020 H PLUS is a non-additivated, low density polyethylene with high rigidity, good opticals and good chemical resistance. This grade is characterized by a very low gel level. Typical customer applications are lamination films or other higher value film applications where a very low gel content is required. 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
Processing Methods	Blown Film, Cast Film
Features	Low Gel, Good Heat Seal, Superior Optical Properties, Good Processability, Good Stiffness
Typical Customer Applications	Blown Film, Cast Film, Food Packaging Film, Lamination Film, Surface Protection Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.928	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	2.0	g/10 min
Mechanical			
Dart drop impact (50µm, Blown Film)	ASTM D 1709	110	g
Tensile Modulus	ISO 527-1, -2	300	MPa
Tensile Stress at Yield	ISO 527-1, -2	13.0	MPa
Tensile Strength	ISO 527-1, -3	25.0	MPa
<i>Note: MD</i>		20.0	MPa
<i>Note: TD</i>			
Tensile Strain at Break	ISO 527-1, -3	350	%
<i>Note: MD</i>		600	%
<i>Note: TD</i>			
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	100	°C
Melting Temperature	ISO 3146	114	°C
Optical			
Haze (50µm)	ASTM D 1003	<6,5	%

Gloss	ASTM D 2457	
(20°, 50µm)		>70
(60°, 50µm)		>110
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Film		
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Melt Temperature		160 to 200 °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, 50 µm: 4 J/mm

Coefficient of Friction, ISO 8295: >80%

Recommended Film Thickness: 20 to 60 µm

Notes

Typical properties; not to be construed as specifications.