

Technical Data Sheet

Lupolen 3020H

Low Density Polyethylene



Product Description

Lupolen 3020 H is a non-additivated, low density polyethylene. It is characterized by a good balance between processability and mechanical properties.

LyondellBasell customers report that films made from Lupolen 3020 H exhibit a glossy surface finish.

Lupolen 3020 H provides the option to produce films with very good optical properties.

It is delivered in pellet form.

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

Regulatory Status

For regulatory compliance information, see Lupolen 3020H [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
Application	Bags & Pouches; Food Packaging Film; Lamination Film; Shrink Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Good Heat Seal; Good Processability; Superior Optical Properties

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	2.0	g/10 min	ISO 1133-1
Density	0.928	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	300	MPa	ISO 527-1, -2
Tensile Stress at Yield	13	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	110	g	ASTM D1709
Tensile Strength			
MD	25	MPa	ISO 527-1, -3
TD	20	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	350	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Coefficient of Friction	>0.8		ISO 8295
Impact			
Failure Energy	4	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50 N)	100	°C	ISO 306
Peak Melting Point	114	°C	ISO 11357-3

Optical

Haze, (50 μm)	<7 %	ASTM D1003
Gloss		
(20°)	>70	ASTM D2457
(60°)	>110	ASTM D2457

Additional Information

Test Specimen	Film
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Film properties tested using 50 μm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2.5:1.

Processing Parameters

Extrusion Temperature	160-200 °C
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Notes

These are typical property values not to be construed as specification limits.