

Technical Data Sheet



Lupolen 2220H

Low Density Polyethylene

Product Description

Lupolen 2220H and 2226H are homopolymer low density polyethylene resins designed for film applications requiring premium clarity with strength and stiffness. 2220H / 2226H are selected by customers for bread bags, light produce, food packaging, bubble wrap and other packaging films enhanced by clarity and sparkle. These grades do not contain an antioxidant.

Regulatory Status

For regulatory compliance information, see [Lupolen 2220H Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Clarity Film; Compounding; Film Wrap; Food Packaging Film; Lamination Film; Packaging Foam, and other Foam applications; Surface Protection Film
Market	Compounding; Flexible Packaging
Processing Method	Blown Film; Cast Film; Compounding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	2.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9225	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.9225	g/cm ³	ASTM D1505
Film			
Dart Drop Impact Strength, F50	130	g	ASTM D1709
Tensile Strength at Break			
MD	21	MPa	ASTM D882
TD	19	MPa	ASTM D882
Tensile Strength at Yield			
MD	11	MPa	ASTM D882
TD	12	MPa	ASTM D882
Tensile Elongation at Break			
MD	400	%	ASTM D882
TD	550	%	ASTM D882
1% Secant Modulus			
MD	220	MPa	ASTM D882
TD	240	MPa	ASTM D882
Elmendorf Tear Strength			
MD	300	g	ASTM D1922
TD	300	g	ASTM D1922
Optical			
Haze	5.0	%	ASTM D1003
Gloss	80		ASTM D2457

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Additive

Slip	None	LYB Method
Antiblock	None	LYB Method

Product**Notes**

Data obtained from 50 micron film produced on a 50 mm extruder with a 100 mm die, 185°C melt temperature, 2.5:1 BUR, 0.635 mm die gap at 27 kg/hr.

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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