

Technical Data Sheet

LF2240PX



Low Density Polyethylene

Product Description

LF2240PX is a homopolymer low density polyethylene resin selected by customers for use in household film and other applications that require high clarity and good impact strength combined with low COF. LF2240PX contains an antioxidant.

Regulatory Status

For regulatory compliance information, see LF2240PX [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Developmental
Availability	North America
Application	Bags & Pouches; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Secondary Packaging
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	4.0	g/10 min	4.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9225	g/cm ³	0.9225	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.9230	g/cm ³	0.9230	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	70	g	70	g	ASTM D1709
Tensile Strength at Break					
MD	3300	psi	23	MPa	ASTM D882
TD	2200	psi	15	MPa	ASTM D882
Tensile Strength at Yield					
MD	1500	psi	10	MPa	ASTM D882
TD	1400	psi	9.6	MPa	ASTM D882
Tensile Elongation at Break					
MD	180	%	180	%	ASTM D882
TD	490	%	490	%	ASTM D882
1% Secant Modulus					
MD	25000	psi	170	MPa	ASTM D882
TD	30000	psi	210	MPa	ASTM D882
Elmendorf Tear Strength					
MD	290	g	290	g	ASTM D1922
TD	110	g	110	g	ASTM D1922
Optical					
Haze	5	%	5	%	ASTM D1003
Gloss	71		71		ASTM D2457

Additive			
Slip	750 ppm	750 ppm	LYB Method
Antiblock	900 ppm	900 ppm	LYB Method

Notes

Data obtained from 1.2 mil (30 micron) film produced on a 200mm blown film line with 2.5:1 BUR, 0.039" die gap.

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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