### **Technical Data Sheet**

## HF1810P

lyondellbasell

Linear Low Density Polyethylene

## **Product Description**

The HF1810P resin is a pelletized linear low density polyethylene selected by customers for applications that require maximum strength and toughness. This product offers excellent additive homogeneity, requires no transfer equipment modification, and facilitates clean and safe handling. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging. HF1810P offers enhanced film strength, drawdown, toughness and heat seal strength. In addition, this resin has excellent low temperature resistance for applications such as stretch film and frozen food packaging.

## **Regulatory Status**

For regulatory compliance information, see HF1810P Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

**Status** Commercial: Active

Availability Asia-Pacific; Europe; North America; South & Central America

**Application** Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film;

Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shrink Film

Flexible Packaging; Rigid Packaging Market Blown Film; Sheet and Profile Extrusion **Processing Method** 

Typical Properties	Nominal Value	English Units	Nominal Value		Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.918	g/cm³	0.918	g/cm³	ASTM D792
Product Density, (23 °C)	0.9225	g/cm³	0.9225	g/cm³	ASTM D792
Film					
Dart Drop Impact Strength, F50	200	g	200	g	ASTM D1709
Tensile Strength at Break					
MD	7540	psi	52	MPa	ASTM D882
TD	6530	psi	45	MPa	ASTM D882
Tensile Elongation at Break					
MD	710	%	710	%	ASTM D882
TD	750	%	750	%	ASTM D882
1% Secant Modulus					
MD	34800	psi	240	MPa	ASTM D882
TD	42000	psi	290	MPa	ASTM D882
Elmendorf Tear Strength					
MD	525	g	525	g	ASTM D1922
TD	720	g	720	g	ASTM D1922
Optical					
Haze	27	%	27	%	ASTM D2457
Gloss, (45°)	31	%	31	%	ASTM D1003
Additive					
Slip	1000	ppm	1000	ppm	LYB Method

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Antiblock	6750 ppm	6750 ppm	LYB Method
Polymer Processing Aid	Present	Present	LYB Method

#### **Notes**

Film sample used for testing was 1.0 mil gauge, 2.5:1 BUR.

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

## **Processing Techniques**

Recommended processing conditions for this product are a melt temperature of 400 - 450 °F and a 1.5 to 3.0:1 blow-up ratio.

Using proper techniques, these products can readily be drawn below 0.90 mils at optimum production rates.

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 <a href="http://www.lyb.com/">http://www.lyb.com/</a>.

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