Technical Data Sheet

HF1810

Linear Low Density Polyethylene



Product Description

The HF1810 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. HF1810 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 HF1810 <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)</u>.

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

MarketFlexible Packaging; Rigid PackagingProcessing MethodBlown Film; Sheet and Profile Extrusion

Nominal	English			
Value	Units	Value	Units	Test Method
1.0	g/10 min	1.0	g/10 min	ASTM D1238
0.918	g/cm³	0.918	g/cm³	ASTM D792
0.918	g/cm³	0.918	g/cm³	ASTM D792
200	g	200	g	ASTM D1709
7540	psi	52	MPa	ASTM D882
6530	psi	45	MPa	ASTM D882
710	%	710	%	ASTM D882
750	%	750	%	ASTM D882
34800	psi	240	MPa	ASTM D882
42000	psi	290	MPa	ASTM D882
525	g	525	g	ASTM D1922
720	g	720	g	ASTM D1922
16	%	16	%	ASTM D1003
41	%	41	%	ASTM D2457
None		None		LYB Method
	1.0 0.918 0.918 200 7540 6530 710 750 34800 42000 525 720 16 41	1.0 g/10 min 0.918 g/cm³ 0.918 g/cm³ 200 g 7540 psi 6530 psi 710 % 750 % 34800 psi 42000 psi 525 g 720 g	Value Units Value 1.0 g/10 min 1.0 0.918 g/cm³ 0.918 0.918 g/cm³ 0.918 200 g 200 7540 psi 52 6530 psi 45 710 % 710 750 % 750 34800 psi 240 42000 psi 290 525 g 525 720 g 720 16 % 16 41 % 41	Value Units Value Units 1.0 g/10 min 1.0 g/10 min 0.918 g/cm³ 0.918 g/cm³ 0.918 g/cm³ 0.918 g/cm³ 200 g 200 g 7540 psi 52 MPa 6530 psi 45 MPa 710 % 750 % 34800 psi 240 MPa 42000 psi 290 MPa 525 g 720 g 16 % 16 % 41 % 41 %

Antiblock None None 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 http://www.lyb.com/.

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