

Linear Low Density Polyethylene (LLDPE)

Description:

OPELENE OP1810FA3 is a pelletized linear low density polyethylene selected for film extrusion applications that require excellent drawdown and toughness. These resins have excellent puncture resistance, elongation and heat seal strength. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging.

General:

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Application	<ul style="list-style-type: none"> Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Liner film; Retail Carryout Bags; Shrink Film
Uses	<ul style="list-style-type: none"> Flexible Packaging
Processing Method	<ul style="list-style-type: none"> Blown Film

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Base Resin Density (23 C)	0.918	g/cm ³	ASTM D1505
Product Density (23 C)	0.923	g/cm ³	ASTMD1505
Melt Mass-Flow Rate (190 C/2.16kg)	1.0	g/10 min	ASTM D1238
Film	Nominal Value	Unit	Test Method
Tensile Strength - MD (Break)	6600	psi	ASTM D882
Tensile Strength - TD (Break)	4700	psi	ASTM D882
Tensile Elongation - MD (Break)	580	%	ASTM D882
Tensile Elongation - TD (Break)	725	%	ASTM D882
Dart Drop Impact Strength, F50	100	g	ASTM D1709
Elmedorf Tear Strength - MD	125	g	ASTM D1922
Elmedorf Tear Strength - TD	330	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Point	225	Fahrenheit	ASTM D1525
Additive			
Slip	None	PPM	
Antiblock	7000	PPM	

Notes:

Typical properties: these are not to be construed as specifications