



Exelene® LLDPE

Product Data Sheet

Linear Low-Density Polyethylene

LLDPE-octene¹

Blown Film Extrusion

1801

Melt Flow Rate **1**

Density **0.919**

Applications

- Film for packing liquid or pasty foods such as pasteurized milk, milky drinks, juices and soft drinks
- Labels for decanters and bottles
- Film for packing cheese and processed vacuum packed meats

Characteristics

- The Exelene resin LLDPE 1801 meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

Properties		ASTM Testing	Units	Values
Resin Properties				
Melt Flow Rate	MFI ₂	D 1238 (190°C; 2,16 kgf)	g/10 min	1
Density		D 792 (23°C)	g/cm ³	0.919
Melting Point		DSC	°C	122
Additives Package	Antioxidant, Slip Agent, Antiblock Agent			
Blow Film Properties with thickness of 1,0 mils = 25,4 μm y BUR = 2,5				
Tensile Strength @ yield ⁽²⁾	MD	D 882A (20 in/min)	psi	1,600
	TD		psi	1,750
Tensile Strength @ break	MD	D 882A (20 in/min)	psi	7,460
	TD		psi	5,400
Elongation @ break	MD	D 882A (20 in/min)	%	520
	TD		%	670
Flexural Strength	MD	D 882A (0,2 in/min; 1%)	psi	25,000
	TD		psi	31,000
Elmendorf Tear Propagation	MD	D 1922 (23°C; 1.600 gf)	gf	260
	TD		gf	640
Impact Resistance by the Free Falling Dart Method		D 1709A (F50; 38 mm; 66 cm)	gf	210
Opacity		D 1003	%	10

(1) znLLDPE-octene – Linear Low Density Polyethylene polymerized from comonomer 1-octene In presence of Ziegler-Natta catalysts

(2) MD = Machine Direction and TD = Transversal Direction

