

**Linear Low-Density Polyethylene
znLLDPE-butene¹
Blow Film Extrusion**

1400

Melt Flow Rate 0,95

Density 0,919

Applications

- Mixtures with HMW-HDPE for plastic short bags and rectangular bags for supermarkets
- Semi-rigid pipes for irrigation

Characteristics

- The Exelene resin LLDPE 1400 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	0.95
Density		D 792 (23°C)	g/cm ³	0.919
Melting Point		DSC	°C	121
Additives Package			Antioxidant	
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	1,360
	TD		psi	1,380
Tensile Strength @ break	MD	D 882A (20 in/min)	psi	4,600
	TD		psi	3,500
Elongation @ break	MD	D 882A (20 in/min)	%	540
	TD		%	800
Flexural Strength	MD	D 882A (0,2 in/min; 1%)	psi	28,000
	TD		psi	32,300
Elmendorf Tear Propagation	MD	D 1922 (1.600 gf)	gf	110
	TD		gf	650
Impact Resistance by the Free Falling Dart Method		D 1709A (F50; 38 mm; 66 cm)	gf	75
Opacity		D 1003	%	22

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

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