



Exelene[®]_m LLDPE

Product Data Sheet

Linear Low-Density Polyethylene LLDPE-Metallocene Blown Film Extrusion

1901

Melt Flow Rate 1

Density 0.919

Applications

- Packaging Films, Agricultural Films, General Packaging, Blown Film, Bread Bags
- Trash bags, trash can liners, multi layer packaging

Characteristics

- The Exelene resin LLDPE 1901 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	119
Additives Package	Antiblock, Slip, Processing Aid, Thermal Stabilizer			
Film Properties				
Tensile Strength @ yield ⁽²⁾	MD	D 882A (20 in/min)	psi	1,270
	TD		psi	1,220
Tensile Strength @ break	MD	D 882A (20 in/min)	psi	6,570
	TD		psi	4,610
Elongation @ break	MD	D 882A (20 in/min)	%	470
	TD		%	550
Flexural Strength	MD	D 882A (0,2 in/min; 1%)	psi	26,000
	TD		psi	27,000
Elmendorf Tear Strenght	MD	D 1922	g	247
	TD		g	465
Impact Resistance by the Free Falling Dart Method		D 1709A (F50; 38 mm; 66 cm)	gf	380
Gloss		D 2457		42

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

Reach

- Polyethylene are exempted from registration under REACH. However, the corresponding monomers (used as raw materials for polymer production) and relevant additives have been registered. Please see related Declaration of Compliance for Plastic Food Contact Materials (DoC for PFCM).

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