



Exelene® LLDPE

Product data Sheet

Linear Low-Density Polyethylene

LLDPE-hexene¹

Blown Film Extrusion

1601

Melt Flow Rate **1**

Density **0.920**

Applications

- Bags for re-packing powdered foods or grains such as rice, pulses, salt, sugar, flour and cereals
- 1-10 kg Bags for packing powdered foods and grains such as rice, pulses, salt and sugar
- Bags for packing powdered substances for domestic and industrial use such as detergents, sand and gravel

Characteristics

- The Exelene resin LLDPE 1601 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	0.920
Melting Point		DSC	°C	124
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 @ break ⁽²⁾	MD	D 882A (20 in/min)	psi	5,250
	TD		psi	4,250
Elongation @ break	MD	D 882A (20 in/min)	%	520
	TD		%	780
Flexural Strength	MD	D 882A (0,2 in/min; 1%)	psi	30,000
	TD		psi	36,000
Elmendorf Tear Propagation	MD	D 1922 (23°C; 1.600 gf)	gf	400
	TD		gf	630
Impact Resistance by the Free Falling Dart Method	D 1709A (F50; 38 mm; 66 cm)		gf	160
Opacity	D 1003		%	21

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

(2) 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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