MONTACHEM INTERNATIONAL

Exelene® LLDPE

Product Data Sheet

Linear Low-Density Polyethylene
LLDPE-hexene[1]
Blown Film Extrusion

1600

Melt Flow Rate	1
Density	0.919

Applications
- Heavy Duty shipping sacks
- Mixture with HMW-HDPE for internal liners in drums, bags and boxes
- 25 kg Industrial Bags

Characteristics
- The Exelene resin LLDPE 1600 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/cm³	0.919
Melting Point		DSC	°C	124
Additives Package				
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	4,750
	TD		psi	3,485
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 – Lineal 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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