MONTACHEM INTERNATIONAL

Exelene® LLDPE

Product Data Sheet

Linear Low-Density Polyethylene

LLDPE-butene[1]

Cast and Blown Film Extrusion

2401

Melt Flow Rate	2
Density	0.920

Applications

- Resin for LDPE mixtures
- Plastic bags for light parking solid foods such as bread, tarts, vegetables and fruits
- Liners for industrial cans, garbage cans and 55 gallon barrels
- Plastic Clothes Covers

Characteristics

- The Exelene resin LLDPE 2401 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	2
Density		D 792 (23°C)	g/cm^3	0.920
Melting Point		DSC	°C	123
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	1,230
	TD		psi	1,250
Tensile Strength @ break	MD	D 882A (20 in/min)	psi	3,900
	TD		psi	2,900
Elongation @ break	MD	D 882A (20 in/min)	%	600
	TD		%	800
Flexural Strength	MD	D 882A (0,2 in/min; 1%)	psi	25,700
	TD		psi	28,400
Elmendorf Tear Propagation	MD	D 1922 (1.600 gf)	gf	110
	TD		gf	570
Impact Resistance by the Free Falling Dart Method		D 1709A (F50; 38 mm; 66 cm)	gf	70
Opacity		D 1003	%	35

(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

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