



Exelene® LDPE

Product Data Sheet

Low Density Polyethylene Heavy Duty HMW-LDPE¹ Blow Film Extrusion

0200

Melt Flow Rate **0.3**

Density **0.921**

Applications

- Greenhouse Film, Industrial Shrink Film, 25kg Industrial Bags
- Bags for re-packing powdered foods and grains such as rice, pulses, salt, sugar, flour and cereals
- Bags for packing powdered substances for domestic or industrial use such as detergents, sand and gravel

Characteristics

- The Exelene resin LDPE 0200 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	0.30	
Density	D 792 (23°C)	g/cm ³	0.921	
Melting Point	DSC	°C	110	
Blow Film Properties with thickness of 2,0 mils = 50,8 µm y BUR = 2,5				
Tensile Strength @ yield ⁽²⁾	MD	D 882A (20 in/min)	psi	1,550
	TD		psi	1,430
Tensile Strength @ break	MD	D 882A (20 in/min)	psi	3,500
	TD		psi	3,000
Elongation @ break	MD	D 882A (20 in/min)	%	250
	TD		%	750
Flexural Strength	MD	D 882A (0,2 in/min; 1%)	psi	22,000
	TD		psi	28,000
Elmendorf Tear Propagation	MD	D 1922 (23°C; 1.600 gf)	gf	330
	TD		gf	120
Impact Resistance by the Free Falling Dart Method	D 1709A (F50; 38 mm; 66 cm)	gf	250	
Opacity	D 1003	%	20.5	

(1) HMW-LDPE – Low Density Polyethylene with high molecular mass (MFI₂ < 0,3 g/min) for Heavy Duty applications

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

