

Exelene® LLDPE 1901

Metallocene Linear Low Density Polyethylene

Montachem International, Inc.

Message:

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.

General Information	
Additive	Antiblock Heat Stabilizer Processing Aid Slip
Features	Antiblocking Food Contact Acceptable Good Processability Good Thermal Stability Low Density Slip
Uses	Agricultural Applications Food Packaging Food Service Applications Non-specific Food Applications Packaging
Agency Ratings	FDA 21 CFR 177.1520(c)
Processing Method	Blown Film Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength ¹			ASTM D882
-- ²	179	MPa	
-- ³	172	MPa	

Films	Nominal Value	Unit	Test Method
Tensile Strength ⁴			
MD : Yield	8.76	MPa	ASTM D882
TD : Yield	8.41	MPa	ASTM D882
MD : Break	45.3	MPa	ASTM D882A
TD : Break	31.8	MPa	ASTM D882A
Tensile Elongation ⁵			ASTM D882A
MD : Break	470	%	
TD : Break	550	%	
Dart Drop Impact ⁶ (38000 μm)	580	g	ASTM D1709A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	119	°C	DSC
Optical	Nominal Value		Test Method
Gloss	42		ASTM D2457
NOTE			
1.	5.1 mm/min		
2.	TD, 1% secant		
3.	MD, 1% secant		
4.	510 mm/min		
5.	510 mm/min		
6.	F50, 66 cm		

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