

Exelene® LDPE 0700

Low Density Polyethylene

Montachem International, Inc.

Message:

Applications:

Shrink Film for Semi-Heavy Duty

Frozen Food Packaging

Characteristics:

The Exelene resin LDPE 0700 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			
Features	Durable		
	Food Contact Acceptable		
	Low Density		
Uses	Film		
	Food Packaging		
	Food Service Applications		
	Non-specific Food Applications		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength ¹			ASTM D882
-- ²	221	MPa	
-- ³	193	MPa	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Tensile Strength ⁴			ASTM D882A
MD : Break	33.1	MPa	
TD : Break	21.4	MPa	
Tensile Elongation ⁵			ASTM D882A
MD : Break	200	%	
TD : Break	800	%	
Dart Drop Impact ⁶ (38000 µm)	110	g	ASTM D1709A

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	110	°C	DSC
Optical	Nominal Value	Unit	Test Method
Haze	4.0	%	ASTM D1003
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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