

Exelene® LLDPE 1400

Linear Low Density Polyethylene

Montachem International, Inc.

Message:

Exelene® LLDPE 1400 is a Linear Low Density Polyethylene product. It can be processed by blown film or film extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Exelene® LLDPE 1400 include bags/liners, additive/masterbatch, film and food contact applications.

Characteristics include:

Antioxidant

Butene Comonomer

Food Contact Acceptable

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Food Contact Acceptable		
Uses	Bags		
	Blending		
	Film		
	Laundry Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus ¹			ASTM D882A
2% Secant, MD	193	MPa	
2% Secant, TD	223	MPa	
Tensile Strength ²			ASTM D882A
MD : Yield	9.38	MPa	
TD : Yield	9.51	MPa	
MD : Break	31.7	MPa	
TD : Break	24.1	MPa	
Tensile Elongation ³			ASTM D882A
MD : Break	540	%	

TD : Break	800	%	
Dart Drop Impact ⁴ (970 μm)	75	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	110	g	
TD	650	g	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	121	°C	DSC
Optical	Nominal Value	Unit	Test Method
Opacity	22	%	ASTM D1003
NOTE			
1.	5.1 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	F50		

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