

Formolene® L42009E2

Linear Low Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

Formolene® L42009E2 is a general-purpose film grade linear low density made using gas-phase technology. The resin exhibits excellent toughness and strength when drawn down to thin gauges.
Formolene® L42009E2 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

General Information			
Additive	Antiblock (1700 ppm)		
	Slip (1350 ppm)		
Features	Antiblocking		
	Butene Comonomer		
	Food Contact Acceptable		
	General Purpose		
	Good Drawdown		
	Good Strength		
	Good Toughness		
	Slip		
Uses	Blending		
	Film		
	General Purpose		
	Industrial Applications		
	Laundry Bags		
	Liners		
	Non-specific Food Applications		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Film		
Processing Method	Blown Film		
	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Tensile Strength			ASTM D882
MD : Break, 25 μm,Blown Film	35.2	MPa	
TD : Break, 25 μm,Blown Film	28.5	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 μm,Blown Film	690	%	
TD : Break, 25 μm,Blown Film	920	%	
Elmendorf Tear Strength ¹			
MD : 25.0 μm	57.9	kN/m	ASTM D1922
TD : 25.0 μm	148.6	kN/m	
Dart Impact (25.0 μm) ²	52.1	kN/m	ASTM D1709
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (45°, 25.0 μm, Blown Film)	40		ASTM D523
Haze (25.0 μm, Blown Film)	20	%	ASTM D1003
NOTE			
1.	Blown Film		
2.	Blown Film		

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