

SABIC® LLDPE 120W

Linear Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description

120W is a Linear Low Density Polyethylene grade featuring superior clarity for flexible packaging. Film exhibits excellent optical properties with good tensile and impact strength properties.

Formulation: 1500 ppm Slip & 3000 ppm Antiblock

Typical Applications

High clarity applications, paper overwrap, produce and bread bags, garment and liners

General Information			
Additive	Antiblock (3000 ppm)		
	Slip (1500 ppm)		
Features	Copolymer		
	Good Impact Resistance		
	Good Toughness		
	High Antiblocking		
	High Clarity		
	High Slip		
	High Tensile Strength		
Uses	Bags		
	Film		
	Liners		
	Optical Applications		
	Packaging		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	ASTM D882
Secant Modulus			
MD : 30 µm	260	MPa	
TD : 30 µm	270	MPa	ASTM D882
Tensile Strength			

MD : Yield,30 μm	10.0	MPa	
TD : Yield,30 μm	9.00	MPa	
MD : Break, 30 μm	38.0	MPa	
TD : Break, 30 μm	30.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 30 μm	650	%	
TD : Break, 30 μm	810	%	
Dart Drop Impact (30 μm)	120	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 μm	160	g	
TD : 30 μm	350	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 30.0 μm)	90		ASTM D2457
Haze (30.0 μm)	10	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance (30.0 μm)	600	J/cm	Internal Method
Extrusion	Nominal Value	Unit	
Melt Temperature	195 to 215	°C	

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