

SABIC® LLDPE 118 Series

Linear Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description

118 series resins are Linear Low Density Polyethylene grades suitable for general purpose packaging. Films produced using these resins gives good tensile properties, impact strength and optical properties.

Series includes following grades:

118N: No Slip & No Antiblock

118L: 1000 ppm Slip & 2500 ppm Antiblock

118Z: 1000 ppm Slip & 3500 ppm Antiblock

118W: 1500 ppm Slip & 3500 ppm Antiblock

118WS*: 1400 ppm Slip & 2700 ppm Antiblock

118WJ**: 1500 ppm Slip & 3500 ppm Antiblock

* - High Clarity grade, ** - TNPP Free Grade

Typical Applications

Lamination film, ice & frozen food bags, liners, carrier bags, garbage bags, coextruded films, consumer packaging etc.

General Information			
Additive	Antiblock		
	Slip		
Features	Antioxidant		
	Food Contact Acceptable		
	General Purpose		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	High Tensile Strength		
	Puncture Resistant		
	Slip		
Uses	Bags		
	Film		
	Food Packaging		
	Laminates		
	Liners		
	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	
Secant Modulus			ASTM D882
1% Secant, MD : 30 μm, Blown Film	250	MPa	
1% Secant, TD : 30 μm, Blown Film	270	MPa	
Tensile Strength			ASTM D882
MD : Yield, 30 μm, Blown Film	10.0	MPa	
TD : Yield, 30 μm, Blown Film	9.00	MPa	
MD : Break, 30 μm, Blown Film	37.0	MPa	
TD : Break, 30 μm, Blown Film	30.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 30 μm, Blown Film	650	%	
TD : Break, 30 μm, Blown Film	830	%	
Dart Drop Impact (Blown Film)	110	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 μm	160	g	
TD : 30 μm	360	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ISO 306
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 μm, Blown Film)	87		ASTM D2457
Haze (30.0 μm, Blown Film)	11	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Puncture Resistance - Blown Film (30.0 μm)	680	J/cm	
Extrusion	Nominal Value	Unit	
Melt Temperature	195 to 215	°C	

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