

SABIC® LLDPE 118WE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 118WE is a butene-linear low density polyethylene resin for general purpose applications. Films produced from this resin are tough with excellent puncture resistance, high tensile strength, good hottack properties and low gel levels. The resin contains anti block and slip erucamide. SABIC® LLDPE 118WE is TNPP free.

Application

Typical applications for SABIC® LLDPE 118WE are shipping sacks, ice bags, frozen food bags, liners, carrier bags, garbage bags, agriculture films, lamination and coextruded films, shrink film (for blending with LDPE), industrial consumer packaging and high clarity film if blended with (10-20%) LDPE. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
Additive	Erucamide Lubricating Additive
	Anti-caking agent
	Antioxidation
Features	Low density
	Low speed solidification crystal point
	Butene comonomer
	High tensile strength
	smoothness
	Perforation resistance
	Anti-caking property
	Antioxidation
	Good toughness
	General
Uses	Blown Film
	Packaging
	Films
	Laminate
	Lining
	Bags
	Mixing
	Agricultural application
	Shrinkable film
Processing Method	Lamination method
	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.10		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	160	MPa	ISO 527-3
TD: 50 µm, blown film	180	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	37.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	30.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	600	%	ISO 527-3
TD: Broken, 50 µm, blown film	800	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (50.0 µm)	220	J/cm	ASTM D4272
Clarity - Blown Film (50.0 µm)	0.0200	V	Internal method
Blocking - Blown Film (50.0 µm)	15	g	Internal method
Puncture Resistance - Blown Film (50.0 µm)	380	J/m	Internal method
Re-blocking - Blown Film (50.0 µm)	10	g	Internal method
Tear Strength ¹			ISO 6383-2
MD : 50.0 µm	40.0	kN/m	ISO 6383-2
TD : 50.0 µm	120.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	101	°C	ISO 306/A
Melting Temperature (DSC)	121	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	42		ASTM D2457
Haze (50.0 µm, Blown Film)	20	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
Film of 50 µm and BUR=2 has been produced on Kiefel IBC with 140 kg/h. Die size 200 mm, die gap 2,7 mm.			
NOTE			
1.	Blown Film		

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