

# SABIC® LLDPE 118NE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LLDPE 118NE is a butene linear low density polyethylene resin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength, good hottack properties and low gel levels. SABIC® LLDPE 118NE is TNPP free.

### Application

Typical applications for SABIC® LLDPE 118NE 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. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	Antioxidation		
Features	Low density		
	Low speed solidification crystal point		
	Butene comonomer		
	High tensile strength		
	Perforation resistance		
	Antioxidation		
	General		
Uses	Blown Film		
	Packaging		
	Laminate		
	Lining		
	Bags		
	Mixing		
	Agricultural application		
	Shrinkable film		
	General		
Processing Method	Lamination method		
	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	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)	1.2		ASTM D1894
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	50	μm	
Tensile Modulus			ISO 527-3
MD: 50 μm, blown film	190	MPa	ISO 527-3
TD: 50 μm, blown film	210	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	12.0	MPa	ISO 527-3
MD: Broken, 50 μm, blown film	44.0	MPa	ISO 527-3
TD: Broken, 50 μm, blown film	33.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 μm, blown film	650	%	ISO 527-3
TD: Broken, 50 μm, blown film	850	%	ISO 527-3
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Impact Strength - Blown Film (50.0 μm)	230	J/cm	ASTM D4272
Blocking - Blown Film (50.0 μm)	10	g	Internal method
Puncture Resistance - Blown Film (50.0 μm)	630	J/m	Internal method
Re-blocking - Blown Film (50.0 μm)	65	g	Internal method
Tear Strength <sup>1</sup>			ISO 6383-2
MD : 50.0 μm	40.0	kN/m	ISO 6383-2
TD : 50.0 μm	140.0	kN/m	ISO 6383-2
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	103	°C	ISO 306/A
Melting Temperature (DSC)	121	°C	Internal method
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss (45°, 50.0 μm, Blown Film)	53		ASTM D2457
Haze (50.0 μm, Blown Film)	13	%	ASTM D1003A
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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.			
<b>NOTE</b>			
1.	Blown Film		

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