

# SABIC® LDPE 2102N3W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LDPE 2102N3W is a general purpose grade with a high level of anti block and slip agent (E=erucamide).

This grade offers good optical properties and a very good draw down ability.

### Application

SABIC® LDPE 2102N3W is typically used for packaging films for food and industrial goods and for lamination films. This grade is typically used when high draw down is required. The usual melt-2 film thickness can be reduced by 10-40%, maintaining an adequate CoF level.

SABIC® LDPE 2102N3W can typically be used for food applications due to very low migration levels.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	High caking resistance (800 ppm)		
	Erucamide Lubricating Additive (600 ppm)		
Features	Low density		
	High smoothness		
	High caking resistance		
	Optical		
	Good stripping		
	General		
Uses	Blown Film		
	Packaging		
	Laminate		
	Industrial application		
	Food packaging		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3
MD: 25 µm, blown film	190	MPa	ISO 527-3
TD: 25 µm, blown film	190	MPa	ISO 527-3
Tensile Stress			ISO 527-3

MD: Yield, 25 µm, blown film	13.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 25 µm, blown film	30.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	18.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	> 100	%	ISO 527-3
TD: Broken, 25 µm, blown film	> 500	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (25.0 µm)	200	J/cm	ASTM D4272
Blocking - Blown Film (25.0 µm)		g	Internal method
Re-blocking - Blown Film (25.0 µm)	10	g	Internal method
Tear Strength <sup>1</sup>			ISO 6383-2
MD : 25.0 µm	50.0	kN/m	ISO 6383-2
TD : 25.0 µm	20.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Haze (25.0 µm, Blown Film)	12	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method

Film properties have been measured at film of 25 µm with a BUR of 3. The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.

#### NOTE

1. Blown Film

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