

# SABIC® LDPE 2500N0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LDPE 2500N0 is a grade without additives with very good shrink properties, stiffness and good bundle force. The grade has a good draw down ability.

## Application

SABIC® LDPE 2500TN00 is typically used for application in shrinkhoods, industrial sacks, heavy duty bags and liners.

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

General Information			
Features	Low density		
	Rigid, good		
	Good stripping		
Uses	Blown Film		
	Lining		
	Industrial application		
	Heavy packing bag		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.90		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	210	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	12.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	12.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	27.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	23.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	> 200	%	ISO 527-3
TD: Broken, 50 µm, blown film	> 500	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (50.0 µm)	200	J/cm	ASTM D4272

Blocking (50.0 μm) <sup>1</sup>	20	g	Internal method
Re-blocking (50.0 μm) <sup>2</sup>		g	Internal method
Tear Strength <sup>3</sup>			ISO 6383-2
MD : 50.0 μm	35.0	kN/m	ISO 6383-2
TD : 50.0 μm	40.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Haze (50.0 μm, Blown Film)	11	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method

Film properties have been measured at film of 50 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
2. Blown Film
3. Blown Film

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