

# SABIC® LDPE 2100N0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LDPE 2100N0 is a grade with very good toughness and biaxial shrink properties. The material contains no additives, has a very low energy consumption during processing and has good draw down ability.

### Application

SABIC® LDPE 2100N0 is a heavy duty film grade typically used for applications like shrink hoods, industrial sacks, carrier bags and liners.

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

General Information			
Features	Low density Good stripping Good toughness		
Uses	Blown Film Films Lining Bags Industrial application		
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)	0.33	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	1.0		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	190	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	28.0	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)	300	J/cm	ASTM D4272
Blocking - Blown Film (50.0 μm)	20	g	Internal method
Re-blocking - Blown Film (50.0 μm)	10	g	Internal method
Tear Strength <sup>1</sup>			ISO 6383-2
MD : 50.0 μm	30.0	kN/m	ISO 6383-2
TD : 50.0 μm	30.0	kN/m	ISO 6383-2
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	93.0	°C	ISO 306/A
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Haze (50.0 μm, Blown Film)	12	%	ASTM D1003A
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>

Film properties have been measured at 50 μm films with a BUR of 3. Films have been produced on Kiefel IBC film blown line at 200 kg/h. Die size 200 mm, die gap of 0.8 mm.

**NOTE**

1. Blown Film

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

**Recommended distributors for this material**

**Susheng Import & Export Trading Co.,Ltd.**

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

