

SABIC® LDPE 2101N0W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2101N0W is a grade with good toughness and biaxial shrink properties. The material contains no additives, has a low energy consumption during processing and a good draw down ability.

Application

SABIC® LDPE 2101N0W is typically used for thin shrink film.

SABIC® LDPE 2101N0W 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			
Features	Low density		
	Good stripping		
	Good toughness		
	Mobility Low to None		
Uses	Blown Film		
	Non-specific food applications		
	Shrinkable film		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	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	170	MPa	ISO 527-3
TD: 50 µm, blown film	170	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	25.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	20.0	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)	250	J/cm	ASTM D4272
Blocking - Blown Film (50.0 μm)	50	g	Internal method
Re-blocking - Blown Film (50.0 μm)	50	g	Internal method
Tear Strength ¹			ISO 6383-2
MD : 50.0 μm	40.0	kN/m	ISO 6383-2
TD : 50.0 μm	30.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Haze (50.0 μm, Blown Film)	9.0	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method

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

NOTE

1. Blown Film

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