

SABIC® LDPE 2102N0W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2102N0W is a general purpose grade without additives. This grade offers a high output and a very good draw down.

Application

SABIC® LDPE 2102N0W is typically used for general purpose film applications and for lamination film.

SABIC® LDPE 2102N0W 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		
	General		
	Mobility Low to None		
Uses	Blown Film		
	Laminate		
	Non-specific food applications		
	General		
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)	2.5	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	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	11.0	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	17.0	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)	20	g	Internal method
Re-blocking - Blown Film (25.0 µm)	50	g	Internal method
Tear Strength ¹			ISO 6383-2
MD : 25.0 µm	70.0	kN/m	ISO 6383-2
TD : 25.0 µm	25.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	91.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	53		ASTM D2457
Haze (25.0 µm, Blown Film)	10	%	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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