

SABIC® LDPE 2501N0W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2501N0W is a grade without additives with a low gel level, which combines good draw down ability with fair optical properties and stiffness.

Application

SABIC® LDPE 2501N0W is typically used in diaper film, surface protection film, lamination film and in applications where low blocking behaviour is required and the presence of slip and anti block is unwanted.

SABIC® LDPE 2501N0W 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		
	Low speed solidification crystal point		
	Rigid, good		
	Optical		
	Good stripping		
	Mobility Low to None		
Uses	Blown Film		
	Laminate		
	Non-specific food applications		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	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	
Elastic Modulus - MD (50 µm, Blown Film)	200	MPa	ASTM D882
Elastic Modulus - TD (50 µm, Blown Film)	200	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	> 200	%	ASTM D882

TD: Broken, 50 µm, blown film	> 500	%	ASTM D882
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (50.0 µm)	150	J/cm	ASTM D4272
Blocking - Blown Film (50.0 µm)	20	g	Internal method
Re-blocking - Blown Film (50.0 µm)		g	Internal method
Tear Strength ¹			ISO 6383-2
MD : 50.0 µm	45.0	kN/m	ISO 6383-2
TD : 50.0 µm	45.0	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)	10	%	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

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