SABIC® LDPE 2501N0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2501N0 is a grade without additives with a low gel level, which combines good draw down ability with fair optical properties and stiffness.
Application
Blown Film: SABIC® LDPE 2501N0 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.
Cast Film: SABIC® LDPE 2501N0 is typically used in diaper film, lamination film and in applications where low blocking behaviour without the help of additives is required.
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
Uses	Blown Film Laminate cast film
Processing Method	Lamination method Blow film cast film

Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm³	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			
-- [1]	25	µm	
-- [2]	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 Modulus			ISO 527-3
MD: 25 µm, cast film	150	MPa	ISO 527-3
TD: 25 µm, cast film	160	MPa	ISO 527-3

Tensile Strength			
MD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
MD: Yield, 25 µm, cast film	10.0	MPa	ISO 527-3
TD: Yield, 25 µm, cast film	9.00	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
MD: Fracture, 25 µm, cast film	28.0	MPa	ISO 527-3
TD: Fracture, 25 µm, cast film	18.0	MPa	ISO 527-3
Tensile Elongation			
MD: Broken, 50 µm, blown film	> 200	%	ASTM D882
TD: Broken, 50 µm, blown film	> 500	%	ASTM D882
MD: Fracture, 25 µm, cast film	160	%	ISO 527-3
TD: Fracture, 25 µm, cast film	580	%	ISO 527-3
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Strength			ASTM D4272
Blown Film : 50.0 µm	150	J/cm	ASTM D4272
Cast Film : 25.0 µm	140	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 [3]			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			ASTM D1003A
50.0 µm, blown film	10	%	ASTM D1003A
25.0 µm, cast film	5.8	%	ASTM D1003A
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Blown FilmFilm 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.Cast FilmThe optical and film properties are determined on 25 µm cast film. Die gap 1.0 mm.			
NOTE			
1.	Cast Film		
2.	Blown Film		
3.	Blown Film		

Recommended distributors for this material

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