SABIC® LDPE 2100N0W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2100N0W 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 2100N0W is a heavy duty film grade typically used for applications like shrink hoods, industrial sacks, carrier bags and liners.
SABIC® LDPE 2100N0W 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 Lining Bags Non-specific food applications Industrial application		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.921	g/cm³	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 - TD [1] (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)	12	%	ASTM D1003A
Additional Information	**Nominal Value**	**Unit**	**Test Method**
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		

Recommended distributors for this material

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