



SABIC® LDPE 2100N0W

Low density polyethylene for Blown film

Description

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.

Film properties

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.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

Typical data.

Revision 20150617

Properties	Units SI	Values	Test methods	
Polymer properties				
Melt flow rate (MFR) at 190 °C and 2.16 kg	dg/min	0.33	ISO 1133	
Density	kg/m ³	921	ISO 1183 (A)	
Optical properties				
Haze	%	12	ASTM D1003A	
Clarity	mV	50	SABIC method	
Film properties				
Impact strength	kJ/m	30	ASTM D4272	
Tear strength TD	kN/m	30	ISO 6383-2	
Tensile test film				
Yield stress TD	MPa	11	ISO 527-3	
Yield stress MD	MPa	11		
Stress at break TD	MPa	23		
Stress at break MD	MPa	28		
Strain at break TD	%	>500		
Strain at break MD	%	>200		
Modulus of elasticity TD	MPa	190		
Modulus of elasticity MD	MPa	190		
Coefficient of friction	-	1.0		ASTM D1894
Blocking	g	20		SABIC method
Re-blocking	g	10	SABIC method	
Thermal properties				
Vicat softening temperature at 10 N (VST/A)	°C	93	ISO 306	



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Health, Safety and Food Contact regulations. Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet (www.SABIC-europe.com). Additional specific information can be requested via your local Sales Office.

Quality. SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO 9001.

Storage and handling. Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

Environment and recycling. The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

Disclaimer. The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by SABIC Europe B.V.