



SABIC® LDPE 2101N0W

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2101N0W is a grade with good toughness and biaxial shrink properties. The material contains no additives, has a low energy consumption during processing and a good draw down ability.

Application

SABIC® LDPE 2101N0W is typically used for thin shrink film.

SABIC® LDPE 2101N0W can typically be used for food applications due to very low migration levels.

Film properties

Film properties have been measured at 50 µm film with a BUR of 3.

The film has been produced on Kiefel IBC film blown line at 200 kg/h. Die size 200 mm, die gap 0.8 mm.

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

TYPICAL PROPERTY VALUES

Revision 20180228

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	0.85	dg/min	ISO 1133
Density	921	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Haze	9	%	ASTM D1003
Clarity	30	mV	SABIC method
FILM PROPERTIES			
Impact strength	25	kJ/m	ASTM D4272
Tear strength TD	30	kN/m	ISO 6383-2
Tear strength MD	40	kN/m	ISO 6383-2
Tensile test film			
Yield stress TD	11	MPa	ISO 527-3
Stress at break MD	25	MPa	ISO 527-3
Stress at break TD	20	MPa	ISO 527-3
Modulus of elasticity TD	170	MPa	ISO 527-3
Tensile test film			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	1.0	-	ASTM D1894
Blocking	50	g	SABIC method



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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Re-blocking	50	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	93	°C	ISO 306

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.com). Additional specific information can be requested via your local Sales Office.

QUALITY

SABIC 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 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 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

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

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