

SABIC® LDPE 2100N0

LOW DENSITY POLYETHYLENE - REGION
GLOBAL

DESCRIPTION

SABIC® LDPE 2100N0 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 2100N0 is a heavy duty film grade typically used for applications like shrink hoods, industrial sacks, carrier bags and liners. 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 PROPERTY VALUES

Revision 20170119

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	921	kg/m ³	ISO 1183 (A)
OPTICAL PROPERTIES			
Haze	12	%	ASTM D1003A
FILM PROPERTIES			
Impact strength	30	kJ/m	ASTM D4272
Tear strength TD	30	kN/m	ISO 6383-2
Tear strength MD	30	kN/m	ISO 6383-2
Tensile test film			
Stress at break TD	23	MPa	ISO 527-3
Stress at break MD	28	MPa	ISO 527-3
Modulus of elasticity TD	190	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Tensile test film			
Strain at break MD	> 200	%	ISO 527-3
Strain at break TD	> 500	%	ISO 527-3
Coefficient of friction	1.0	-	ASTM D1894
Blocking	20	g	SABIC method
Re-blocking	10	g	SABIC method
THERMAL PROPERTIES			
Vicat softening temperature			
at 10 N (VST/A)	93	°C	ISO 306

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.

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.

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 Saudi Arabia Basic Industries Corporation.