

SABIC® LDPE 2008N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2008N0 is a LDPE tubular grade without additives. SABIC® LDPE 2008TN00 is produced using SABIC Clean Tubular Reactor (CTR) Technology which ensure grades with high purity. It exhibits high toughness with good flexibility and reasonable environmental stress cracking resistance and is therefore typically used for flexibles and tough articles. Application SABIC® LDPE 2008N0 is typically suitable for injection moulding application, frequently used for caps & closures. This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	7.5	dg/min	ISO 1133
at 190 °C and 5 kg	28	dg/min	ISO 1133
Melt volume rate (MVR)			
at 190 °C and 2.16 kg	10	ml/10 min	ISO 1133
at 190 °C and 5 kg	33	ml/10 min	ISO 1133
Density	920	kg/m ³	ISO 1183
MECHANICAL PROPERTIES (2) (3) (4) (5)			
Tensile test (1)			
stress at yield	8	MPa	ISO 527/1A
stress at break	10	MPa	ISO 527/1A
tensile modulus	130	MPa	ISO 527/1A
Tensile test (1)			
strain at break	120	%	ISO 527/1A
Izod impact notched			
at -30 °C	9	kJ/m ²	ISO 180/A
at 23 °C	45	kJ/m ²	ISO 180/A
Hardness Shore D	40	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature (2) (3) (4) (5)			
at 0.45 MPa (HDT/B)	43	°C	ISO 75-2
Vicat Softening Temperature (2) (3) (4) (5)			
at 10 N (VST/A)	89	°C	ISO 306
DSC test			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
melting point	107	°C	DIN 53765
DSC test			
enthalpy change	125	J/g	DIN 53765

- (1) Speed of testing: 50 mm/min
- (2) Based on injection moulded test specimens
- (3) Based on injection moulded test specimens
- (4) Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours
- (5) Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours

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.

QUALITY

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

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.

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.

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.