

# SABIC® LDPE 2008N0

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2008N0 is a LDPE tubular grade without additives. SABIC® LDPE 2008N0 is produced using SABIC Clean Tubular Reactor (CTR) Technology with typically high purity.

#### Application

SABIC® LDPE 2008N0 is typically used as carrier resin for masterbatch and compounding applications.

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

### TYPICAL PROPERTY VALUES

Revision 20190507

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	7.5	dg/min	ISO 1133
at 190 °C and 5 kg	28	dg/min	ISO 1133
<b>Melt volume rate (MVR)</b>			
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
<b>Density</b>	920	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test <sup>(1)</sup></b>			
stress at break	10	MPa	ISO 527/1A
tensile modulus	130	MPa	ISO 527/1A
strain at break	120	%	ISO 527/1A
stress at yield	8	MPa	ISO 527/1A
<b>Izod impact notched</b>			
at 23 °C	45	kJ/m <sup>2</sup>	ISO 180/A
at -30 °C	9	kJ/m <sup>2</sup>	ISO 180/A
<b>Hardness Shore D</b>	40	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(2) (3)</sup></b>			
at 0.45 MPa (HDT/B)	43	°C	ISO 75-2
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	89	°C	ISO 306
<b>DSC test</b>			
melting point	107	°C	DIN 53765
enthalpy change	125	J/g	DIN 53765

(1) Speed of testing: 50 mm/min

(2) Based on injection moulded test specimens

(3) 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 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.

## 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.

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