



SABIC® LDPE 2100TN00

Low density polyethylene for Blown film

Description

SABIC® LDPE 2100TN00 is a grade with excellent toughness and outstanding biaxial shrink properties. The material contains no additives, has a very low energy consumption during processing and has excellent draw down ability.

Application

SABIC® LDPE 2100TN00 is a heavy duty film grade suitable for applications like shrink hoods, industrial sacks, carrier bags and liners.

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.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

Typical data.

Revision 20100929

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg	g/10 min	0.33	ISO 1133
Density	kg/m ³	921	ISO 1183 (A)
Optical properties			
Haze	%	12	ASTM D 1003A
Clarity	mV	50	SABIC method
Film properties			
Impact strength	kJ/m	30	ASTM D 4272
Tear strength TD	kN/m	30	ISO 6383-2
Tear strength MD	kN/m	30	ISO 6383-2
Tensile test film			ISO 527-3
Yield stress TD	MPa	11	
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 D 1894
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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General information. SABIC Europe produces low density polyethylene by the tubular reactor processes. The product range covers a wide variety of densities and melt flow rates and this LDPE grade slate has a wide variety of slip and anti block additive levels and includes a large numbers of grades with excellent optical properties.

SABIC's CTR® tubular production technology guarantees a very low gel level and outstanding draw down ability, low odour and taste levels, which is of advantage for thin film processing and in e.g. food packaging.

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 9001-2000. It is SABIC Europe's policy to supply materials that meet customers specifications and needs and to keep up its reputation as a pre-eminent, reliable supplier of e.g. polyethylenes.

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