

SABIC® LLDPE BX202

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE BX202 is a linear low density polyethylene resin typically used for the production of biaxial orientated polyethylene (BOPE) via tenter frame technology. Typical applications are food and non-food packaging. SABIC® BX202 facilitates mono-material PE structures. This grade is also available as certified bio-renewable and circular polymer.

Film properties: Film of 25 µm, produced on commercial tenter frame with >1000 kg/h output.

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

TYPICAL PROPERTY VALUES

Revision 20210331

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.1	dg/min	ISO 1133
Density	921	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	90	%	ASTM D2457
Haze	5	%	ASTM D1003
FILM PROPERTIES			
Dart Impact F50	350	g	ASTM D1709
Tensile test film			
Stress at break MD	70	MPa	ASTM D882
Modulus of elasticity MD	510	MPa	ASTM D882
Stress at break TD	150	MPa	ASTM D882
Strain at break TD	50	%	ASTM D882
Modulus of elasticity TD	850	MPa	ASTM D882
Strain at break MD	230	%	ASTM D882
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	100	°C	ISO 306
DSC test			
melting point	124	°C	SABIC method

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.

DISCLAIMER

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