

SABIC® LLDPE 6335BE

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 6335BE is a hexene linear low density polyethylene resin for cast film applications. The product is typically formulated for optimum thermal stability at high temperatures used in cast film extrusion. Cast films produced from SABIC® LLDPE 6335BE exhibit excellent optical properties, toughness, puncture resistance, tear strength and stiffness.

Application

SABIC® LLDPE 6335BE resin is recommended for use in non cling layers in pallet stretch wrap (pre-stretch), high performance draw down films and other mono layer and coextruded film applications where high strength is required.

Film properties

Properties are determined on 20 µm cast stretch film produced on a 2 m commercial cast stretch film line: melt temperature 270 °C, chill roll temperature 20 °C and line speed 450 m/min.

Processing conditions

SABIC® LLDPE 6335BE is extrudable with conventional cast film extrusion equipment. Minor machine modification may be required for optimum use. Cast film melt temperatures 250 - 300 °C.

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

TYPICAL PROPERTY VALUES

Revision 20201209

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.8	dg/min	ISO 1133
Density	935	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	87.4	%	ASTM D2457
Haze	3.1	%	ASTM D1003
FILM PROPERTIES			
Dart impact	1.4	kJ/m	ISO 7765-2
Tear strength TD	227	kN/m	ISO 6383-2
Protrusion Puncture resistance	1.4	J	ASTM D5748-95
Elastic recovery & Stress retention			
Elastic recovery	45.5	%	ASTM D5459-95
Stress retention	75.0	%	ASTM D5459-95
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	117	°C	ISO 306
DSC test			
melting point	126	°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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