

SABIC® LLDPE 318BJ

LINEAR LOW DENSITY POLYETHYLENE
REGION ASIA

DESCRIPTION

SABIC® LLDPE 318BJ is a butene linear low density polyethylene resin typically designed for easy processing and specially formulated for optimum thermal stability at high temperatures used in cast film extrusion. Cast film produced from SABIC® LLDPE 318BJ exhibit excellent optical properties, puncture resistance and tear strength. SABIC® LLDPE 318BJ is TNPP free. This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL APPLICATIONS

SABIC® LLDPE 318BJ resin is typically used for hand and pallet stretch wrap, cling film, melt embossed film and other genera-purpose application.

TYPICAL PROPERTY VALUES

Revision 20260319

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.8	g/10 min	ASTM D1238
Density	918	kg/m³	ASTM D1505
MECHANICAL PROPERTIES ⁽¹⁾			
Dart Impact Strength	75	g	ASTM D1709
OPTICAL PROPERTIES ⁽¹⁾			
Haze	5	%	ASTM D1003
Gloss	90	-	ASTM D2457
FILM PROPERTIES ⁽¹⁾			
Tensile Properties			
stress at break, MD	28	MPa	ASTM D882
stress at break, TD	18	MPa	ASTM D882
strain at break, MD	470	%	ASTM D882
strain at break, TD	600	%	ASTM D882
stress at yield, MD	13	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	135	MPa	ASTM D882
1% secant modulus, TD	140	MPa	ASTM D882
Puncture resistance	57	J/m	SABIC method
Elmendorf Tear Strength			
MD	65	g	ASTM D1922
TD	300	g	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	98	°C	ASTM D1525

(1) Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 318BJ.

© 2026 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



PROCESSING CONDITIONS

SABIC® LLPDE 318BJ is extrudable with conventional cast film extrusion equipment. Minor machine modifications may be required for optimum use.
Cast film melt temperature: 250 - 300°C Chill roll temperature: 20°C

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.

STORAGE AND HANDLING

Polyethylene resins should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process Polyethylene resins within 6 months after delivery.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

