

POLYMERS

SABIC[®] LLDPE 318B

Linear Low Density Polyethylene for Cast Film

Revision Date Jan, 2016

PRODUCT DESCRIPTION:

318B is a butene Linear Low Density Polyethylene grade designed to provide easy processing and specially formulated for optimum thermal stability at high processing temperatures used during production of Cast films. Films produced using this resin gives excellent optical properties, good puncture resistance and tear strength.

TYPICAL APPLICATIONS:

Cling film, Stretch films for manual and pellet wrap, melt embossed films and other general-purpose applications.

TYPICAL PROPERTY VALUES:

RESIN PROPERTIES	Unit	Value ⁽¹⁾	ASTM Method
Melt Flow Rate @ 190°C & 2.16 Kg load	g/10 min.	2.8	D 1238
Density	Kg/m ³	918	D 1505
MECHANICAL PROPERTIES⁽²⁾			
Tensile Strength @ break, MD	MPa	28	D 882
TD		18	
Tensile Elongation @ break, MD	%	470	D 882
TD		600	
Tensile Strength @ yield, MD	MPa	13	D 882
TD		10	
1% Secant Modulus, MD	MPa	135	D 882
TD		140	
Puncture Resistance	J/mm.	57	SABIC Method
Dart Impact Strength	g	75	D 1709
Elmendorf Tear Strength, MD	g	65	D 1922
TD		300	
OPTICAL PROPERTIES⁽²⁾			
Haze	%	5	D 1003
Gloss @ 60°	-	90	D 2457
THERMAL PROPERTIES			
Vicat Softening Point	°C	98	D 1525

(1) Typical values; not to be construed as specification limits.

(2) Mechanical properties have been measured by producing 30 µ film with 2.5 BUR using 100% 318B.

PROCESSING CONDITIONS:

Typical processing conditions for 318B are:

- Melt temperature: 250- 300 °C
- Chill roll temperature: 20 °C

FOOD REGULATION:

318B resin is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

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

STORAGE & HANDLING:

Polyethylene resin 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 PE resin within 6 months after delivery.

CONTACT US:

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