



## 318B

### Linear Low Density Polyethylene for Cast Film

#### Product Description

318B is Linear Low Density Polyethylene grade designed to provide easy processability 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 data

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	2.8	D 1238
Density @ 23°C	kg/m <sup>3</sup>	918	D 1505
<b>Mechanical Properties<sup>(2)</sup></b>			
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	
<b>Optical Properties<sup>(2)</sup></b>			
Haze	%	5	D 1003
Gloss @ 60°	-	90	D 2457
<b>Thermal Properties</b>			
Vicat Softening Point	°C	98	D 1525

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

(2) 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 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.

**Storage and 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 don't 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.

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Saudi Basic Industries Corporation, P.O.Box 5101, Riyadh 11422, Kingdom of Saudi Arabia  
Tel: 966 1 2258000  
Fax: 966 1 2259000

Technical Marketing  
Tel: 966 1 2659166  
Fax: 966 1 2653544  
Toll-free 800 1245577

PE Sales:  
Fax: 966 1 2258760  
Website: [www.sabic.com](http://www.sabic.com)

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