



## 6318B

Linear Low Density Polyethylene for Cast Film

### Product Description

6318B resin is hexene comonomer based 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, toughness, puncture resistance and tear strength.

### Typical Applications

It is recommended for pellet wrap (pre-stretch), high performance draw down films and other general purpose applications where high strength is required.

### 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	33	D 882
TD		24	
Tensile Elongation @ break, MD	%	600	D 882
TD		800	
Tensile Strength @ yield, MD	MPa	13	D 882
TD		10	
1% Secant Modulus, MD	MPa	180	D 882
TD		190	
Puncture Resistance	J/mm	64	SABIC Method
Dart Impact Strength	g	120	D 1709
Elmendorf Tear Strength, MD	g	200	D 1922
TD		800	
<b>Optical Properties<sup>(2)</sup></b>			
Haze	%	4	D 1003
Gloss @ 60°	-	92	D 2457
<b>Thermal Properties</b>			
Vicat Softening Point	°C	99	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% 6318B.

### Processing Conditions

Typical processing conditions for 6318B are:

Melt temperature: 265 - 300°C

Chill roll temperature: 20°C

**Food Regulation**

6318B 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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