

## SABIC 6318B Linear Low Density Polyethylene for Cast Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

### Material Notes:

**Product Description:** 6318B is a hexene copolymer Linear Low Density Polyethylene grade designed to provide easy processability and specially formulated for optimum thermal stability at high processing temperatures used during the production of Cast films. Films produced using this resin give excellent optical properties, 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. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-6318B-Linear-Low-Density-Polyethylene-for-Cast-Film.php](http://www.lookpolymers.com/polymer_SABIC-6318B-Linear-Low-Density-Polyethylene-for-Cast-Film.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	load density; ASTM D1505
Thickness	30.0 microns	1.18 mil	
Melt Flow	2.8 g/10 min @Load 2.16 kg, Temperature 190 °C	2.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.0 MPa	1890 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	800 g	800 g	ASTM D1922
Elmendorf Tear Strength, MD	6.67 g/micron	169 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	26.67 g/micron	677.4 g/mil	ASTM D1922
Dart Drop Total Energy	640 J/cm	1.20 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	4.00 g/micron	102 g/mil	ASTM D1709
Dart Drop Test	120 g	0.265 lb	ASTM D1709
Film Tensile Strength at Break, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ASTM D882

1% Secant Modulus, MD Mechanical Properties	180 MPa Metric	26100 psi English	ASTM D882 Comments
1% Secant Modulus, TD	190 MPa	27600 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	99.0 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	92 %	92 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	265 - 300 °C	509 - 572 °F	
Roll Temperature	20.0 °C	68.0 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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