

POLYMERS

SABIC[®] LLDPE

318B

Linear Low Density Polyethylene for Cast Film

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.