

SABIC[®] LLDPE 6318B

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

6318BJ resin is a hexene comonomer based Linear Low Density Polyethylene TNPP free 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 PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	2.8	dg/min	ISO 1133
Density	918	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (60°)	93	%	ASTM D2457
Haze	1.7	%	ASTM D1003
FILM PROPERTIES			
Dart Impact F50	120	g	ASTM D1709
Tear strength TD Elmendorf	800	g/μm	ASTM D1922
Tear strength MD Elmendorf	200	g/μm	ASTM D1922
Puncture resistance	64	J/m	SABIC method
Tensile test film			
Yield stress TD	10	MPa	ASTM D882
Stress at break TD	26	MPa	ASTM D882
Stress at break MD	33	MPa	ASTM D882
Yield stress MD	13	MPa	ASTM D882
Modulus of elasticity TD	210	MPa	ASTM D882
Modulus of elasticity MD	100	MPa	ASTM D882
Strain at break TD	800	%	ASTM D882
Strain at break MD	600	%	ASTM D882
THERMAL PROPERTIES			
Vicat Softening Temperature			
Rate A, 1 kg/50 °C	105	°C	ISO 306
DSC test			
melting point	125	°C	SABIC method