

# SABIC® LLDPE 318B

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

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.

General Information			
Features	Optical		
	Perforation resistance		
	Workability, good		
	Good tear strength		
	Thermal stability, good		
	General		
Uses	Films		
	General		
Processing Method	Film extrusion		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
secant modulus			ASTM D882
MD : 30 µm	135	MPa	ASTM D882
TD : 30 µm	140	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 30 µm	13.0	MPa	ASTM D882
TD: Yield, 30 µm	10.0	MPa	ASTM D882
MD: Break, 30 µm	28.0	MPa	ASTM D882
TD: Break, 30 µm	18.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	470	%	ASTM D882
TD: Break, 30 µm	600	%	ASTM D882

Dart Drop Impact (30 μm)	75	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 μm	65	g	ASTM D1922
TD : 30 μm	300	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 μm)	90		ASTM D2457
Haze (30.0 μm)	5.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance (30.0 μm)	570	J/cm	Internal method
Extrusion	Nominal Value	Unit	
Melt Temperature	250 - 300	°C	

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#### Recommended distributors for this material

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