



SABIC® LLDPE 320BJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 320BJ is a linear low density polyethylene resin intended for cast film applications. This resin has good flow characteristics for easy processing. Films made from this resin exhibit excellent transparency, and good toughness properties.

TYPICAL APPLICATIONS

- Hand and pallet stretch wrap film
- Wire & Cable

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	3.1	g/10 min	ASTM D1238
Density			
density	0.922	g/cm ³	ASTM D792
OPTICAL PROPERTIES ⁽²⁾			
Gloss			
Gloss (45°)	150	-	ASTM D2457
Haze ⁽²⁾	0.7	%	ASTM D1003
FILM PROPERTIES ⁽²⁾			
Dart Impact Strength			
Dart Drop Impact	65	g	ASTM D1709
Elmendorf Tear Strength			
Tear Strength, MD	80	g	ASTM D1922
Tear Strength, TD	200	g	ASTM D1922
Tensile test film			
1% secant modulus, MD	160	MPa	ASTM D882
1% secant modulus, TD	160	MPa	ASTM D882
Stress @ Break, MD	30	MPa	ASTM D882
Stress @ Break, TD	25	MPa	ASTM D882
Strain @ Break, MD	680	%	ASTM D882
Strain @ Break, TD	890	%	ASTM D882
THERMAL PROPERTIES			
Melting Point	122	°C	SABIC method

(1) Typical values: not to be construed as specification limits.

(2) Cast film processing conditions: Extruder Ø55 mm, Die width 600 mm, Die lip gap 1.2 mm, Die temperature 280 °C, Chill roll temperature 30 °C, Output rate 50 kg/h, Take-up speed 75 m/min, Film thickness 20 µm.