

# SABIC® LLDPE 222NJ

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC® LLDPE 222NJ 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. LLDPE 222NJ contains no slip agent or Anti-Block.

## TYPICAL APPLICATIONS

- Hand and pallet stretch wrap film
- Wire & Cable

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	2.2	g/10 min	ASTM D1238
<b>Density</b>			
Density	0.921	g/cm <sup>3</sup>	ASTM D792
<b>OPTICAL PROPERTIES <sup>(1)</sup></b>			
<b>Gloss</b>			
Gloss (45°)	150	-	ASTM D2457
<b>Haze <sup>(1)</sup></b>	0.7	%	ASTM D1003
<b>FILM PROPERTIES <sup>(1)</sup></b>			
<b>Dart Impact Strength</b>			
Dart Drop Impact	65	g	ASTM D1709
<b>Elmendorf Tear Strength</b>			
Tear Strength, MD	70	g	ASTM D1922
Tear Strength, TD	215	g	ASTM D1922
<b>Tensile test film</b>			
1% secant modulus, MD	160	MPa	ASTM D882
1% secant modulus, TD	155	MPa	ASTM D882
Stress @ Break, MD	40	MPa	ASTM D882
Stress @ Break, TD	30	MPa	ASTM D882
Strain @ Break, MD	670	%	ASTM D882
Strain @ Break, TD	850	%	ASTM D882
<b>THERMAL PROPERTIES</b>			
<b>Melting Point</b>	122	°C	SABIC method

(1) 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.