

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

Revision 20220616

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.2	g/10 min	ASTM D1238
Density			
Density	0.921	g/cm ³	ASTM D792
OPTICAL PROPERTIES⁽¹⁾			
Gloss			
Gloss (45°)	150	-	ASTM D2457
Haze ⁽¹⁾	0.7	%	ASTM D1003
FILM PROPERTIES⁽¹⁾			
Dart Impact Strength			
Dart Drop Impact	65	g	ASTM D1709
Elmendorf Tear Strength			
Tear Strength, MD	70	g	ASTM D1922
Tear Strength, TD	215	g	ASTM D1922
Tensile test film			
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
THERMAL PROPERTIES			
Melting Point	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.

PROCESSING CONDITIONS

Typical processing conditions: 180 - 220 °C

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STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

CHEMISTRY THAT MATTERS™

