

SABIC® LLDPE 122NJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 122NJ is a linear low density polyethylene resin designed for blown film applications. Films made from these resins exhibit excellent transparency, good impact and toughness properties.

TYPICAL APPLICATIONS

General purpose film, lamination film, stretch blown film

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1.1	g/10 min	ASTM D1238
Density			
Density	0.921	g/cm ³	ASTM D792
OPTICAL PROPERTIES ⁽¹⁾			
Gloss			
Gloss (45°)	80	-	ASTM D2457
Haze ⁽¹⁾	7	%	ASTM D1003
FILM PROPERTIES ⁽¹⁾			
Dart Impact Strength			
Dart Drop Impact	115	g	ASTM D1709
Elmendorf Tear Strength			
Tear Strength, MD	135	g	ASTM D1922
Tear Strength, TD	400	g	ASTM D1922
Tensile test film			
1% secant modulus, MD	205	MPa	ASTM D882
1% secant modulus, TD	250	MPa	ASTM D882
Stress @ Break, MD	35	MPa	ASTM D882
Stress @ Break, TD	30	MPa	ASTM D882
Strain @ Break, MD	740	%	ASTM D882
Strain @ Break, TD	840	%	ASTM D882
THERMAL PROPERTIES			
Melting Point	122	°C	SABIC method

(1) Blown film processing conditions: Extruder Ø55 mm, Die Ø125 mm, Die lip gap 2.0 mm, Temperature 200 °C, Output rate 30 kg/h, BUR 2.0, Film thickness 30 µm.

PROCESSING CONDITIONS

Typical processing conditions: 180 - 220 °C