



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 20230420

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



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.

ENVIRONMENT AND RECYCLING

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.