info@petromall.ps
petromall.ps
PETROMALL
Since 1998

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

Revision 20230420

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/cm³	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 Ö55 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 ìm.

PROCESSING CONDITIONS

Processing conditions: Typical processing conditions: 200 - 280 ºC.

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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.

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.

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