SABIC® LLDPE 120WJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

120WJ is a Linear Low Density Polyethylene TNPP free grade suitable for general purpose packaging. Films produced using these resins gives good tensile properties, impact strength and excellent optical properties.
120WJ contains slip and antiblock additive.

TYPICAL APPLICATIONS

Ice and frozen food bags, liners, produce bags, bread bags, textile & garment packaging.

TYPICAL PROPERTY VALUES

Revision 20181019

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
190°C and 2.16 kg	1	g/10 min	ASTM D1238
Density	918	kg/m³	ASTM D1505
FORMULATION			
Slip agent	☑	-	-
Anti block agent	☑	-	-
MECHANICAL PROPERTIES			
Dart Impact Strength	120	g/µm	ASTM D1709
OPTICAL PROPERTIES			
Haze (1)	10	%	ASTM D1003
Gloss			
at 60°	90	-	ASTM D2457
FILM PROPERTIES			
Tensile Properties			
stress at break, MD	38	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	650	%	ASTM D882
strain at break, TD	810	%	ASTM D882
stress at yield, MD	10	MPa	ASTM D882
stress at yield, TD	9	MPa	ASTM D882
1% secant modulus, MD	260	MPa	ASTM D882
1% secant modulus, TD	270	MPa	ASTM D882
Puncture resistance	60	J/mm	SABIC method
Elmendorf Tear Strength			
MD	160	g	ASTM D1922
TD	350	g	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	100	°C	ASTM D1525

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(1) Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 120WJ.

PROCESSING CONDITIONS

Typical processing conditions for 120WJ are:
Melt temperature: 195 - 215°C, Blow up ratio: 2.0 - 3.0

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet (www.SABIC.com). Additional specific information can be requested via your local Sales Office."

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

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.

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