



# 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 20201209

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
190°C and 2.16 kg	1	g/10 min	ASTM D1238
Density	918	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
Slip agent	☑	-	-
Anti block agent	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
Dart Impact Strength	120	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
Haze <sup>(1)</sup>	10	%	ASTM D1003
Gloss			
at 60°	90	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties</b>			
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
<b>Elmendorf Tear Strength</b>			
MD	160	g	ASTM D1922
TD	350	g	ASTM D1922
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	100	°C	ASTM D1525

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

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## PROCESSING CONDITIONS

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

## 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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