

# 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)	1	g/10 min	ASTM D1238
190°C and 2.16 kg			
Density	918	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
Slip agent	<input checked="" type="checkbox"/>	-	-
Anti block agent	<input checked="" type="checkbox"/>	-	-
<b>MECHANICAL PROPERTIES</b>			
Dart Impact Strength	120	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
Haze <sup>(1)</sup>	10	%	ASTM D1003
<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
<b>Puncture resistance</b>	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 m film with 2.5 BUR using 100% 120WJ.