

# SABIC® LLDPE 118WSJ

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

118WSJ is a butene Linear Low Density Polyethylene TNPP free grade suitable for general-purpose packaging with high clarity thin gauge film. Films produced from these resins are tough with excellent puncture resistance, high tensile strength and good hot tack properties.

## TYPICAL APPLICATIONS

Shipping sacks, ice bags, frozen food bags, stretch wrap film, produce bags, liners, carrier bags, garbage bags, agricultural films, laminated and coextruded films for meat wrap, frozen food and other food packaging, shrink film (for blending with LDPE), industrial consumer packaging, and high clarity film applications if blended with (10-20%) LDPE.

## TYPICAL PROPERTY VALUES

Revision 20250527

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
190°C and 2.16 kg	1	g/10 min	ASTM D1238
<b>Density</b>	918	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Slip agent</b>	☑	-	-
<b>Anti block agent</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Dart Impact Strength</b>	145	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b>	10	%	ASTM D1003
<b>Gloss</b>			
at 60°	60	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties <sup>(1)</sup></b>			
stress at break, MD	40	MPa	ASTM D882
stress at break, TD	32	MPa	ASTM D882
strain at break, MD	750	%	ASTM D882
strain at break, TD	800	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	220	MPa	ASTM D882
1% secant modulus, TD	260	MPa	ASTM D882
<b>Puncture resistance</b>	68	J/mm	SABIC method
<b>Elmendorf Tear Strength</b>			
MD	165	g	ASTM D1922
TD	300	g	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	100	°C	ASTM D1525

(1) Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NI.

## PROCESSING CONDITIONS

Typical processing conditions for 118WSJ 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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