



## SABIC® LLDPE 118NJ

Linear low density polyethylene for Blown film

### Description

SABIC® LLDPE 118NJ is a butene linear low density polyethylene resin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hottack properties. SABIC® LLDPE 118NJ is TNPP free.

### Application

Typical applications for SABIC® LLDPE 118NJ are shipping sacks, ice bags, frozen food bags, liners, carrier bags, garbage bags, agriculture films, lamination and coextruded films, shrink film (for blending with LDPE), industrial consumer packaging and high clarity film if blended with (10-20%) LDPE.

### Film properties

Film of 50 µm and BUR=2 has been produced on Kiefel IBC with 140 kg/h. Die size 200 mm, die gap 2,7 mm.

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

### Typical data.

Revision 20160329

Properties	Units SI	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 190 °C and 2.16 kg	dg/min	<b>1.0</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>918</b>	ISO 1183 (A)
<b>Formulation</b>			
<b>Anti oxidant</b>		<b>+</b>	SABIC method (R)
<b>Optical properties</b>			
<b>Gloss (45°)</b>	%	<b>50</b>	ASTM D2457
<b>Haze</b>	%	<b>13</b>	ASTM D1003A
<b>Film properties</b>			
<b>Impact strength</b>	kJ/m	<b>22</b>	ASTM D4272
<b>Tear strength TD</b>	kN/m	<b>120</b>	ISO 6383-2
<b>Tear strength MD</b>	kN/m	<b>40</b>	ISO 6383-2
<b>Puncture resistance</b>	J/m	<b>630</b>	SABIC method
<b>Tensile test film</b>			ISO 527-3
Yield stress TD	MPa	<b>11</b>	
Yield stress MD	MPa	<b>11</b>	
Stress at break TD	MPa	<b>30</b>	
Stress at break MD	MPa	<b>37</b>	
Strain at break TD	%	<b>850</b>	
Strain at break MD	%	<b>700</b>	
Modulus of elasticity TD	MPa	<b>180</b>	
Modulus of elasticity MD	MPa	<b>160</b>	
<b>Thermal properties</b>			
<b>Vicat softening temperature</b> at 10 N (VST/A)	°C	<b>100</b>	ISO 306
<b>DSC test</b> melting point	°C	<b>121</b>	SABIC method