

# SUPEERTM MLLDPE 7118LE

## METALLOCENE LLDPE

### DESCRIPTION

SUPEERTM Metallocene Linear Low Density Polyethylene (mLLDPE) 7118LE is a metallocene ethylene-hexene copolymer. It has a good processability and performs well in a wide range of general purpose and high performance blown film applications. Films produced with this grade offer good tensile and impact strength, puncture resistance and sealing properties.

The resin contains anti-block and slip agent.

SABIC® mLLDPE 7118LE is typically used for applications like heavy duty bags, agriculture film, stretch hood, lamination film, frozen bags.

Properties have been measured on blown film of 25 µm (mono layer) and BUR = 2.5

Typical processing conditions for SABIC® mLLDPE 7118LE: processing temperatures 180 - 230 °C.

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

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	1.0	dg/min	ASTM D1238
Density	918	kg/m <sup>3</sup>	ASTM D792
<b>OPTICAL PROPERTIES</b>			
Haze	29	%	ASTM D1003
Gloss (45°)	25	%	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Dart Impact Strength</b>			
Dart Impact F50	29	g/µm	ASTM D1709
<b>Tear strength TD Elmendorf</b>	23	g/µm	ASTM D1922
<b>Tear strength MD Elmendorf</b>	15	g/µm	ASTM D1922
<b>Tensile test film</b>			
Protrusion puncture resistance	25	N	ASTM D5748-95
Tensile modulus MD	300	MPa	ASTM D882
Tensile modulus TD	310	MPa	ASTM D882
Tensile strength MD	45	MPa	ASTM D882
Tensile strength TD	40	MPa	ASTM D882
Elongation at break MD	510	%	ASTM D882
Elongation at break TD	610	%	ASTM D882
<b>THERMAL PROPERTIES</b>			
<b>DSC test</b>			
melting point ASTM D3418	124	°C	ASTM D3418
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	107	°C	ISO 306