

SABIC® SUPEER™ 7118LE

METALLOCENE LLDPE

DESCRIPTION

SABIC® 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
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	1.0	dg/min	ASTM D1238
Density	920	kg/m³	ASTM D 792
OPTICAL PROPERTIES			
Haze	29	%	ASTM D1003
Gloss @ 45°	25	-	ASTM D2457
FILM PROPERTIES			
Dart Impact Strength			
Dart Impact F50	29	g/µm	ASTM D1709
Tear strength TD Elmendorf	23	g/µm	ASTM D1922
Tear strength MD Elmendorf	15	g/µm	ASTM D1922
Tensile test film			
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
THERMAL PROPERTIES			
DSC test			
melting point ASTM D3418	124	°C	ASTM D3418
Vicat Softening Temperature			
at 10 N (VST/A)	107	°C	ISO 306