



# SABIC<sup>®</sup> SUPEER<sup>™</sup> 8112

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC<sup>®</sup> SUPEER<sup>™</sup> 8112 is an ethylene-octene copolymer produced via solution polymerization using metallocene catalyst. It performs well in a wide range of general purpose and high performance LLDPE blown film applications and have excellent processability.

## TYPICAL APPLICATIONS

Lamination film, frozen bag, liquid pouch, industrial liner, stretch hood, surface protective film.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 190°C and 2.16 kg	1.1	g/10 min	ASTM D1238
<b>Density</b>	912	kg/m <sup>3</sup>	ASTM D1505
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b>	7	%	ASTM D1003
<b>FILM PROPERTIES</b>			
<b>Tensile test film <sup>(1)</sup></b>			
stress at break, MD	51	MPa	ASTM D882
stress at break, TD	49	MPa	ASTM D882
strain at break, MD	660	%	ASTM D882
strain at break, TD	730	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	127	MPa	ASTM D882
1% secant modulus, TD	142	MPa	ASTM D882
<b>Dart Impact F50</b>	>1000	g	ASTM D1709
<b>Elmendorf Tear Strength</b>			
MD	16	g/μm	ASTM D1922
TD	25	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Melting Point</b>	~111	°C	SABIC method

(1) Properties have been measured by producing 50 μm film with 2.5 BUR using 100% SUPEER<sup>™</sup> 8112.

## PROCESSING CONDITIONS

Typical processing conditions for SUPEER<sup>™</sup> 8112 are:  
Barrel temperature: 180 - 200°C, Blow up ratio: 2.0 – 3.0