

# SABIC® SUPEER™ 8112

## METALLOCENE LINEAR LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® SUPEER™ 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>			
Melt Flow Rate			
at 190°C and 2.16 kg	1.1	g/10 min	ASTM D1238
<b>OPTICAL PROPERTIES</b>			
Haze	7	%	ASTM D1003
<b>FILM PROPERTIES</b>			
Tensile test film <sup>(1)</sup>			
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
Dart Impact F50	>1000	g	ASTM D1709
Elmendorf Tear Strength			
MD	16	g/μm	ASTM D1922
TD	25	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
Melting Point	~111	°C	SABIC method

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

### PROCESSING CONDITIONS

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