



# SUPEER™ MLLDPE 8112

## METALLOCENE LINEAR LOW DENSITY POLYETHYLENE

### DESCRIPTION

SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 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

Revision 20201102

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16 kg	1.1	g/10 min	ASTM D1238
<b>Density</b>	912	kg/m³	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™ 8112.

### PROCESSING CONDITIONS

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



## STORAGE AND HANDLING

The resin should be stored in a manner to prevent a direct exposure to sunlight and / or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC® would not give warranty to bad storage conditions that may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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