

SUPEER™ MLLDPE 8118

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 8118 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, liquid pouch, heavy duty bag, industrial liner, agriculture film, stretch hood, surface protective film.

TYPICAL PROPERTY VALUES

Revision 20201102

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	1.1	g/10 min	ASTM D1238
Density	918	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Haze⁽¹⁾	10	%	ASTM D1003
FILM PROPERTIES			
Tensile test film			
elongation at break, TD	730	%	ASTM D882
stress at yield, TD	11	MPa	ASTM D882
1% secant modulus, MD	140	MPa	ASTM D882
1% secant modulus, TD	156	MPa	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at break, MD	54	MPa	ASTM D882
stress at break, TD	54	MPa	ASTM D882
elongation at break, MD	630	%	ASTM D882
Dart Impact F50	1000	g	ASTM D1709
Elmendorf Tear Strength			
MD	14	g/μm	ASTM D1922
TD	22	g/μm	ASTM D1922
THERMAL PROPERTIES			
Melting Point	~115	°C	SABIC method

(1) Properties have been measured by producing 50 μm film with 2.5 BUR using 100% SUPEER™ 8118.

PROCESSING CONDITIONS

Typical processing conditions for SUPEER™ 8118 is:
Barrel temperature: 180 - 200°C, Blow up ratio: 2.0 – 3.0

FOOD REGULATION

Please contact the local Sales / Technical representative for details.

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CHEMISTRY THAT MATTERS™



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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