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SABIC® SUPEER™ 8118

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® SUPEER™ 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190°C and 2.16 kg	1.1	g/10 min	ASTM D1238
Density	918	kg/m³	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