

POLYMERS

SABIC® mLLDPE 8118 Series

Metallocene Linear Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC® mLLDPE 8118 series are ethylene-octene copolymers produced via Nexlene™ Technology. They perform well in a wide range of general purpose and high performance LLDPE blown film applications and have excellent processability.

8118 series include the following grades:

- 8118: Slip: No; Antiblock: No
- 8118L: Slip: 1000 ppm; Antiblock: 2000 ppm

TYPICAL APPLICATIONS:

Lamination film, liquid pouch, heavy duty bag, industrial liner, agriculture film, stretch hood, surface protective film.

TYPICAL PROPERTY VALUES:

PROPERTIES		Unit	Typical Value ⁽¹⁾	Test Method
Melt Index @ 190°C & 2.16 kg load		g/10 min	1.1	ASTM D 1238
Density @ 23°C		kg/m ³	918	ASTM D 792
Melting Point		°C	~115	Internal Method
MECHANICAL PROPERTIES⁽²⁾				
Tensile Strength @ Break	MD	MPa	54	ASTM D 882
	TD		54	
Tensile Elongation @ Break	MD	%	630	ASTM D 882
	TD		730	
Tensile Strength @ Yield	MD	MPa	12	ASTM D 882
	TD		11	
1% Secant Modulus	MD	MPa	140	ASTM D 882
	TD		156	
Dart Impact Strength		g	1000	ASTM D 1709A
Elmendorf Tear Resistance	MD	g/μm	14	ASTM D 1922
	TD	g/μm	22	
OPTICAL PROPERTIES ⁽²⁾				
Haze		%	10	ASTM D 1003

(1) Typical values; not to be construed as specification limits.

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

PROCESSING CONDITIONS:

Typical processing conditions for 8118 series are:
Barrel temperature: 180 - 200°C
Blow up ratio: 2.0 - 3.0

FOOD REGULATION:

Please contact the local Sales / Technical representative for details.

DECLAIMER:

The grades are not intended for and must not be used in any pharmaceutical / medical applications.

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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