

POLYMERS

SABIC® POP 8102 Series

Metallocene Polyolefin Plastomer for Blown Film

PRODUCT DESCRIPTION:

SABIC® POP 8102 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.

8102 series include the following grades:

- 8102: Slip: No; Antiblock: No
- 8102L: Slip: 750 ppm; Antiblock: 3000 ppm

TYPICAL APPLICATIONS:

Low temperature sealing layer for high value packaging (low SIT, seal through contamination, toughness improvement)

TYPICAL PROPERTY VALUES:

PROPERTIES		Unit	Typical Value ⁽¹⁾	Test Method
Melt Index @ 190°C & 2.16 kg load		g/10 min	1.0	ASTM D 1238
Density @ 23°C		kg/m³	902	ASTM D 1505
Melting Point		°C	~100	Internal Method
MECHANICAL PROPERTIES ⁽²⁾				
Tensile Strength @ Break	MD	MPa	47	ASTM D 882
	TD		42	
Tensile Elongation @ Break	MD	%	600	ASTM D 882
	TD		620	
1% Secant Modulus	MD	MPa	68	ASTM D 882
	TD		76	
Dart Impact Strength		g	>1000	ASTM D 1709A
Elmendorf Tear Resistance	MD	g/μm	10	ASTM D 1922
	TD	g/μm	17	
OPTICAL PROPERTIES ⁽²⁾				
Haze		%	4	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% 8102.

PROCESSING CONDITIONS:

Typical processing conditions for 8102 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:

Polyethylene 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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