

POLYMERS

SABIC[®] LLDPE 118J Series

Linear Low Density Polyethylene for Blown Film

Revision Date Jan, 2016

PRODUCT DESCRIPTION:

118J series resin are butene Linear Low Density Polyethylene TNPP free grades suitable for general-purpose packaging with high clarity thin gauge film. Films produced from these resins are tough with excellent puncture resistance, high tensile strength and good hot tack properties.

118J Series include the following grades:

GRADE	SLIP (PPM)	ANTIBLOCK (PPM)	APPLICATIONS
118NJ*	None	None	Blending stock for other resins, blown films of thick gauge, stretch wrap film.
118LJ	1000	2500	General purpose blown films of medium gauge.
118ZJ	1000	3500	General purpose blown films of medium gauge.
118WJ	1500	3500	General purpose blown films of thin gauge.
118WSJ**	1400	2700	High clarity thin gauge film

* Must be modified with slip/antiblock as required

** High Clarity film

TYPICAL APPLICATIONS:

Shipping sacks, ice bags, frozen food bags, stretch wrap film, produce bags, liners, carrier bags, garbage bags, agricultural films, laminated and coextruded films for meat wrap, frozen food and other food packaging, shrink film (for blending with LDPE), industrial consumer packaging, and high clarity film applications if blended with (10-20%) LDPE.

TYPICAL PROPERTY VALUES:

RESIN PROPERTIES	UNIT	VALUE ⁽¹⁾	ASTM METHOD
Melt Flow Rate @ 190°C & 2.16 Kg load	g/10 min.	1	D 1238
Density	Kg/m ³	918	D 1505
MECHANICAL PROPERTIES⁽²⁾			
Tensile Strength @ break, MD	MPa	40	D 882
TD		32	
Tensile Elongation @ break, MD	%	750	D 882
TD		800	
Tensile Strength @ yield, MD	MPa	11	D 882
TD		12	
1% Secant Modulus, MD	MPa	220	D 882
TD		260	

MECHANICAL PROPERTIES ⁽²⁾	UNIT	VALUE ⁽¹⁾	ASTM METHOD
Puncture Resistance	J/mm.	68	SABIC Method
Dart Impact Strength	g	145	D 1709
Elmendorf Tear Strength, MD TD	g	165 300	D 1922
OPTICAL PROPERTIES ⁽²⁾			
Haze	%	10	D 1003
Gloss @ 60°	-	60	D 2457
THERMAL PROPERTIES			
Vicat Softening Point	°C	100	D 1525

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

(2) Mechanical properties have been measured by producing 30 µ film with 2.5 BUR using 100% 118NJ.

PROCESSING CONDITIONS:

Typical processing conditions for 118J series are:

- Melt temperature: 195- 215 °C
- Blow up ratio: 2-3

FOOD REGULATION:

118J series resins are suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

STORAGE & 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 which 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.

CONTACT US:

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