

# 118 Series

LLDPE for Blown Film Extrusion

118 Series are general purpose film grades Linear Low Density Polyethylene (LLDPE) resins. Films produced from these resins are tough with excellent puncture resistance, high tensile strength and good hot tack properties.

118 Series includes the following grades:

Grade	Antiblock (ppm)	Slip (ppm)	Applications
118N *	None	None	Blending stock for other resins, blown films of thick gauge, stretch wrap film.
118L	2500	1000	General purpose blown films of medium gauge.
118Z	3500	1000	General purpose blown films of medium gauge.
118W	3500	1500	General purpose blown films of thin gauge.
118WS **	2700	1400	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.

Physical Properties	Unit	Value <sup>(1)</sup>	Test Method
Melt index	g/10 min.	1.0	D-1238
Density	g/cm <sup>3</sup>	0.918	D-792
Film Properties *			
Tensile strength @ yield	MD	MPa	11
	TD		11.5
Tensile strength @ break	MD	MPa	40
	TD		32
Tensile elongation @ break	MD	%	750
	TD		800
1% Secant modulus	MD	MPa	220
	TD		260
Dart drop impact, F <sub>50</sub>		g	154
Puncture resistance		J/mm	68
Elmendorf tear strength	MD		165
	TD	g	300
Gloss 60° angle		-	60
Haze		%	9.5

\* The film properties have been measured on 118N (30 μ film, 2.5:1 blow-up ratio, PPA masterbatch added)

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

### **Processing Conditions**

Extrusion temperatures = 180 - 220° C

Blow-up ratio = 2.0 – 3.0:1

### **Food Regulation**

118 Series Certificate is available on request.

*NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.*

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