

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 ⁽¹⁾	Test Method
Melt index		g/10 min.	1.0	D-1238
Density		g/cm ³	0.918	D-792
Film Properties *				
Tensile strength @ yield	MD	MPa	11	D-882
	TD		11.5	
Tensile strength @ break	MD	MPa	40	D-882
	TD		32	
Tensile elongation @ break	MD	%	750	D-882
	TD		800	
1% Secant modulus	MD	MPa	220	D-882
	TD		260	
Dart drop impact, F ₅₀		g	154	D-1709
		J/mm	68	
Puncture resistance			165	SABIC method
Elmendorf tear strength	MD	g	165	D-1922
	TD		300	
Gloss 60° angle		-	60	D-2457
Haze		%	9.5	D-1003

* 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.

