

518N

LLDPE for Blown Film Extrusion

518N is a fractional melt-index, high strength Linear Low Density Polyethylene (LLDPE) resins. Films produced from this resin have outstanding toughness, high tensile strength, excellent puncture resistance, good heat sealing latitude and excellent machine-ability on conversion lines.

Typical Applications

Heavy-duty shipping sacks, ice bags, frozen food bags, potato bags and agricultural films.

Physical Properties		Unit	Value ⁽¹⁾	Test Method
Melt index		g/10 min.	0.5	D-1238
Density		g/cm ³	0.918	D-792
Film Properties *				
Tensile strength @ yield	MD TD	MPa	13 11	D-882
Tensile strength @ break	MD TD	MPa	43 34	D-882
Tensile elongation @ break	MD TD	%	700 850	D-882
1% Secant modulus	MD TD	MPa	220 260	D-882
Dart drop impact ⁽²⁾ , F ₅₀		g	200	D-1709
Puncture resistance		J/mm	89	SABIC method ⁽³⁾
Elmendorf tear strength	MD TD	g	135 400	D-1922
Gloss 60° angle		-	87	D-2457
Haze		%	10	D-1003

* The film properties have been measured on 518N (50 μ film, 2.5:1 blow-up ratio)

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

(2) The property can be affected by the presence of slip and antiblock.

(3) Available on request.

Processing Conditions

Extrusion temperatures = 190 – 230 °C

Blow-up ratio = 2.0 – 3.0:1

Food Regulation

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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