

Producer: Saudi Basic Industries Corporation (Sabic) /Saudi Arabia

218 Series

Description: LLDPE for Blown Film Extrusion.

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

GRADE	ANTIBLOCK (PPM)	SLIP (PPM)	APPLICATIONS
218N *	None	None	General purpose films, blending stock for other resins.
218W	3500	1500	General purpose thin gauge films

* Must be modified with Slip/Antiblock as required.

Typical Applications:

Garment bags, thin gauge liners, garbage bags, laminated and coextruded films for meat wrap and other food packaging, coextruded cast stretch wrap films and consumer packaging.

DESCRIPTION OF PROPERTIES	UNIT	VALUE ⁽¹⁾	TEST METHOD
Physical Properties			
Melt index	g/10 min.	2	D-1238
Density	g/cm ³	0.918	D-792
Film Properties *			
Tensile strength @ yield (MD)	Mpa	12	D-882
Tensile strength @ yield (TD)	Mpa	10	D-882
Tensile strength @ break (MD)	Mpa	35	D-882
Tensile strength @ break (TD)	Mpa	29	D-882
Tensile elongation @ break (MD)	%	700	D-882
Tensile elongation @ break (TD)	%	750	D-882
1% Secant modulus (MD)	Mpa	220	D-882
1% Secant modulus (TD)	Mpa	260	D-882
Dart drop impact, F ₅₀	g	110	D-1709
Puncture resistance	J/mm	63	SABIC method
Elmendorf tear strength (MD)	g	135	D-1922
Elmendorf tear strength (TD)	g	400	D-1922
Gloss 60° angle	-	60	D-2457
Haze	%	15	D-1003

• The film properties have been measured on 218N (30 µ film, 2.5:1 blow-up ratio)

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

Processing Conditions: 218 Series resins are extrudable by conventional blown film extrusion equipment, with only minor equipment modifications necessary for optimum use. These products can be drawn to 12 microns gauge.

Extrusion temperatures = 190 - 220° C

Blow-up ratio = 2.0 – 3.0:1

Food Regulation: Certificate is available on request.

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