



118 Series

Linear Low Density Polyethylene for Blown Film

Product Description

118 series resins are Linear Low Density Polyethylene grades suitable for general purpose packaging. Films produced using these resins gives good tensile properties, impact strength and optical properties.

118 Series includes following grades:

118N: No Slip & No Antiblock
118L: 1000 ppm Slip & 2500 ppm Antiblock
118Z: 1000 ppm Slip & 3500 ppm Antiblock
118W: 1500 ppm Slip & 3500 ppm Antiblock
118WS*: 1400 ppm Slip & 2700 ppm Antiblock
118WJ**: 1500 ppm Slip & 3500 ppm Antiblock

* - High Clarity grade, ** - TNPP Free Grade

Typical Applications

Lamination film, ice & frozen food bags, liners, carrier bags, garbage bags, coextruded films, consumer packaging etc.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	1	D 1238
Density @ 23°C	kg/m ³	918	D 1505
Mechanical Properties⁽²⁾			
Tensile Strength @ break, MD	MPa	37	D 882
TD		30	
Tensile Elongation @ break, MD	%	650	D 882
TD		830	
Tensile Strength @ yield, MD	MPa	10	D 882
TD		9	
1% Secant Modulus, MD	MPa	250	D 882
TD		270	
Puncture Resistance	J/mm	68	SABIC Method D 1709
Dart Impact Strength	g	105	
Elmendorf Tear Strength, MD	g	160	
TD		360	D 1922
Optical Properties⁽²⁾			
Haze	%	11	D 1003
Gloss @ 60°	-	87	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% 118N.