+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

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
Dart Impact Strength	g	105	D 1709
Elmendorf Tear Strength, MD	g	160	D 1922
TD		360	
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.

Processing Conditions
Typical processing conditions for 118 are:
Melt temperature: 195 - 215°C
Blow up ratio: 2 - 3

Food Regulation
118 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling
Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.