



## 218 Series

### Linear Low Density Polyethylene for Blown Film

#### Product Description

218 series resins are Linear Low Density Polyethylene grades suitable for general purpose packaging. They are easy to process giving good tensile properties, impact strength and optical properties.

218 Series includes following grades:

218N: No Slip & No Antiblock

218W: 1500 ppm Slip & 3500 ppm Antiblock

#### Typical Applications

Lamination film, thin liners, shopping bags, carrier bags, garbage bags, coextruded films, consumer packaging etc.

#### Typical data

Properties	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	2	D 1238
Density @ 23°C	kg/m <sup>3</sup>	918	D 1505
Mechanical Properties(2)			
Tensile Strength @ break, MD TD	MPa	35 29	D 882
Tensile Elongation @ break, MD TD	%	700	D 882
Tensile Strength @ yield, MD TD	MPa	750 12	D 882
1% Secant Modulus, MD TD	MPa	10 220	D 882
Puncture Resistance	J/mm	260 63	SABIC Method
Dart Impact Strength	g	85 130	D 1709
Elmendorf Tear Strength, MD TD	g	320	D 1922
Optical Properties(2)			
Haze	%	13	D 1003
Gloss @ 45°	-	80	D 2457
Thermal Properties			
Vicat Softening Point	°C	98	D 1525

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

(2) Properties have been measured by producing 30 µ film with 2.5 BUR using 100% 218N.

### Product Description

Typical processing conditions for 218 are:  
Melt temperature: 185 - 205°C  
Blow up ratio: 2 - 3

### Food Regulation

218 series resins are 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.

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Saudi Basic Industries Corporation, P.O.Box 5101, Riyadh 11422, Kingdom of Saudi Arabia  
Tel: 966 1 2258000  
Fax: 966 1 2259000

Technical Marketing  
Tel: 966 1 2659166  
Fax: 966 1 2653544  
Website: [www.sabic.com](http://www.sabic.com)

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