



218B

Linear Low Density Polyethylene for Cast Film

Product Description

218B is Linear Low Density Polyethylene grade designed to provide easy processability and specially formulated for optimum thermal stability at high processing temperatures used during production of Cast films. Films produced using this resin gives excellent optical properties, good puncture resistance and tear strength.

Typical Applications

Cling film, Stretch films for manual and pellet wrap, melt embossed films and other general purpose applications.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	2	D 1238
Density @ 23°C	kg/m ³	918	D 1505
Mechanical Properties⁽²⁾			
Tensile Strength @ break, MD	MPa	31	D 882
TD		22	
Tensile Elongation @ break, MD	%	550	D 882
TD		670	
Tensile Strength @ yield, MD	MPa	12	D 882
TD		10	
1% Secant Modulus, MD	MPa	200	D 882
TD		240	
Puncture Resistance	J/mm	60	SABIC Method
Dart Impact Strength	g	110	D 1709
Elmendorf Tear Strength, MD	g	135	D 1922
TD		400	
Optical Properties⁽²⁾			
Haze	%	7	D 1003
Gloss @ 60°	-	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% 218B.

Processing Conditions

Typical processing conditions for 218B are:

Melt temperature: 250 - 300°C

Chill roll temperature: 20°C

Food Regulation

218B 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.

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