

HP0322N

Low Density Polyethylene for Blown Film

Product Description

HP0322N is Low Density Polyethylene grade suitable for producing heavy duty films and contains no slip and antiblock additives. It gives outstanding toughness and optical properties in the film.

Typical Applications

HP0322N can be used for Heavy duty bags, industrial shrink films, construction and agricultural films.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.3	D 1238
Density @ 23°C	kg/m ³	922	D 1505
Mechanical Properties⁽²⁾			
Tensile Strength @ break, MD	MPa	31	D 882
TD		30	
Tensile Elongation @ break, MD	%	450	D 882
TD		690	
Tensile Strength @ yield, MD	MPa	11	D 882
TD		10	
1% Secant Modulus, MD	MPa	190	D 882
TD		220	
Dart Impact Strength	g	200	D 1709
Elmendorf Tear Strength, MD	g	400	D 1922
TD		300	
Optical Properties⁽²⁾			
Haze	%	11	D 1003
Gloss @ 45°	-	50	D 2457
Thermal Properties			
Vicat Softening Point	°C	95	D 1525

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

(2) Properties have been measured by producing 50 µ film with 2.5 BUR using 100% HP0322N.

Processing Conditions

Typical processing conditions for HP0322N are:

Melt temperature: 180 - 195°C

Blow up ratio: 2.5 - 4.0

Food Regulation

HP0322N 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.