



# HP2022 Series

Low Density Polyethylene for Blown Film

## Product Description

HP2022 series resins are Low Density Polyethylene grades suitable for general purpose packaging. They exhibit better draw down, good opticals and mechanical properties.

HP2022N: No Slip & No Antiblock

HP2022J: 750 ppm Slip & 1000 ppm Antiblock

## Typical Applications

Thin shrink film, lamination film, produce bags, textile packaging, soft goods packaging, general purpose bags with good optics and t-shirts carrier bags.

## Typical data

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	2	D 1238
Density @ 23°C	kg/m <sup>3</sup>	922	D 1505
<b>Mechanical Properties<sup>(2)</sup></b>			
Tensile Strength @ break, MD	MPa	21	D 882
TD		18	
Tensile Elongation @ break, MD	%	290	D 882
TD		570	
Tensile Strength @ yield, MD	MPa	8	D 882
TD		7	
1% Secant Modulus, MD	MPa	160	D 882
TD		180	
Dart Impact Strength	g	60	D 1709
Elmendorf Tear Strength, MD	g	180	D 1922
TD		150	
<b>Optical Properties<sup>(2)</sup></b>			
Haze	%	7	D 1003
Gloss @ 45°	-	80	D 2457
<b>Thermal Properties</b>			
Vicat Softening Point	°C	92	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% HP2022N.

## Processing Conditions

Typical processing conditions for HP2022 are:

Melt temperature: 160 - 180°C

Blow up ratio: 2 - 3

**Food Regulation**

HP2022 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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