

## POLYMERS

# SABIC<sup>®</sup> LDPE HP0323N

Low Density Polyethylene for Blown Film

Revision Date Jan, 2016

### PRODUCT DESCRIPTION:

HP0323N is Low Density Polyethylene grade suitable for producing heavy-duty films and does not contain 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 PROPERTY VALUES:

RESIN PROPERTIES	UNIT	VALUE <sup>(1)</sup>	ASTM TEST METHOD
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.3	D 1238
Density @ 23°C	kg/m <sup>3</sup>	923	D 1505
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Strength @ break, MD TD	MPa	32 30	D 882
Tensile Elongation @ break, MD TD	%	235 570	D 882
Tensile Strength @ yield, MD TD	MPa	12 12	D 882
1% Secant Modulus, MD TD	MPa	200 260	D 882
Dart Impact Strength	g/ micron	2	D 1709
Tear Resistance, MD TD	g/ micron g/ micron	2.4 3	D 1922
<b>OPTICAL PROPERTIES <sup>(2)</sup></b>			
Haze	%	15	D 1003
Gloss @ 45°	-	38	D 2457
<b>THERMAL PROPERTIES</b>			
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% HP0323N.

## PROCESSING CONDITIONS:

Typical processing conditions for HP0323N are:

Barrel temperature: 180 - 195°C

Blow up ratio: 2.0 – 4.0

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

## 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 do not 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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