

# SABIC® LDPE HP0323NN

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

HP0323NN is a Low Density Polyethylene grade suitable for producing heavy-duty films. It gives outstanding toughness and optical properties in the film. It contains no slip, no antiblock and no antioxidant additives.

### TYPICAL APPLICATIONS

HP0322NN can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

### TYPICAL PROPERTY VALUES

Revision 20170913

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 190°C and 2.16 kg	0.30	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	923	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Dart Impact Strength</b> <sup>(1)</sup>	2	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Haze</b>	15	%	ASTM D1003
<b>Gloss</b>			
at 45°	38	-	ASTM D2457
<b>FILM PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile Properties</b>			
stress at break, MD	32	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	235	%	ASTM D882
strain at break, TD	570	%	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	200	MPa	ASTM D882
1% secant modulus, TD	260	MPa	ASTM D882
<b>Tear Resistance</b>			
MD	2.4	g/μm	ASTM D1922
TD	3	g/μm	ASTM D1922

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	95	°C	ASTM D1525

(1) Properties have been measured by producing 50 µm film with 2.5 BUR using 100% HP0323N.

## PROCESSING CONDITIONS

Typical processing conditions for HP0323NN 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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