

SABIC® LDPE HP0322N

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP0322N is a 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

Revision 20170706

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
190°C and 2.16 kg	0.33	g/10 min	ASTM D1238
Density			
at 23°C	922	g/10 min	ASTM D1505
MECHANICAL PROPERTIES			
Dart Impact Strength			
	4	g/μm	ASTM D1709
OPTICAL PROPERTIES			
Haze			
	11	%	ASTM D1003
Gloss			
at 45°	50	-	ASTM D2457
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at break, MD	31	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	450	%	ASTM D882
strain at break, TD	690	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	190	MPa	ASTM D882
1% secant modulus, TD	210	MPa	ASTM D882
Tear Resistance			
MD	8	g/μm	ASTM D1922
TD	6	g/μm	ASTM D1922

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL PROPERTIES			

Vicat Softening Temperature	95	°C	ASTM D1525
------------------------------------	----	----	------------

(1) Properties have been measured by producing 50 µm film with 2.5 BUR using 100% HP0322N

PROCESSING CONDITIONS

Typical processing conditions for HP0322N 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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.