

POLYMERS

SABIC[®] LDPE

HP0323N

Low Density Polyethylene for Blown Film
(Provisional Datasheet)

PRODUCT DESCRIPTION:

SABIC[®] LDPE HP0323N is a Low Density Polyethylene grade without slip and anti-block additives. It typically exhibits good melt strength and processability. Films typically exhibit good toughness, good tear strength and high bundling force.

TYPICAL APPLICATIONS:

Heavy duty bags, industrial shrink films, construction and agriculture films, bags & pouches.

This product is not intended for use in medical and pharmaceutical applications.

TYPICAL PROPERTY VALUES:

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.3	ISO 1133
Density @ 23°C	kg/m ³	923	ISO 1183
THERMAL PROPERTIES			
Vicat Softening Temperature (A50 (50°C/h 10N))	°C	96.0	ISO 306
Melting Temperature	°C	110	ISO 3146
FILM MECHANICAL PROPERTIES ⁽²⁾			
Tensile Stress @ Yield	MPa	10	ISO 527, -2
Tensile Stress @ Break (MD)	MPa	27	ISO 527, -3
Tensile Stress @ Break (TD)	MPa	25	ISO 527, -3
Tensile Strain @ Break (MD)	%	200	ISO 527, -3
Tensile Strain @ Break (TD)	%	500	ISO 527, -3
Tensile Modulus	MPa	260	ISO 527, -2
Dart Drop Impact	g	250	ASTM D 1709
Coefficient of Friction	%	> 80	ISO 8295
FILM OPTICAL PROPERTIES ⁽²⁾			
Haze	%	<14	D 1003
Gloss (20°)	%	>15	D 2457
Gloss (60°)	%	>50	D 2457

(1) Typical values; not to be construed as specifications

(2) Measured on 50 micron thickness blown film extruded at melt temperature of 180°C with BUR of 2.5

PROCESSING CONDITIONS:

Typical processing conditions for HP0323N are:

Melt temperature : 170 - 220°C

Blow up ratio : 2.5 - 4.0

Recommended thickness : 70 - 220 micron

FOOD REGULATION

SABIC® LDPE HP0323N 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 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.

Saudi Basic Industries Corporation, P.O. Box 5101, Riyadh 11422, Kingdom of Saudi Arabia

Tel: 966 1 2258000

Fax: 966 1 2259000

Technical Marketing

Tel: 966 1 2659166

Fax: 966 1 2653544

PE Sales:

Fax: 966 1 2258760

Website: www.sabic.com

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any immunity against infringement.