

POLYMERS

SABIC[®] LDPE

HP2023N

Low Density Polyethylene for Blown Film
(Provisional Datasheet)

PRODUCT DESCRIPTION:

SABIC[®] LDPE HP2023N is a Low Density Polyethylene grade without slip and anti-block additives. It typically exhibits better draw down ability with high output. Films typically exhibit good optics and good heat seal properties.

TYPICAL APPLICATIONS:

Bags & pouches, general purpose film.

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.	2	ISO 1133
Density @ 23°C	kg/m ³	923	ISO 1183
THERMAL PROPERTIES			
Vicat Softening Temperature (A50 (50°C/h 10N))	°C	94.0	ISO 306
Melting Temperature	°C	111	ISO 3146
FILM MECHANICAL PROPERTIES ⁽²⁾			
Tensile Stress @ Yield	MPa	11	ISO 527, -2
Tensile Stress @ Break (MD)	MPa	25	ISO 527, -3
Tensile Stress @ Break (TD)	MPa	21	ISO 527, -3
Tensile Strain @ Break (MD)	%	250	ISO 527, -3
Tensile Strain @ Break (TD)	%	600	ISO 527, -3
Tensile Modulus	MPa	260	ISO 527, -2
Dart Drop Impact	g	110	ASTM D 1709
Coefficient of Friction	%	> 80	ISO 8295
FILM OPTICAL PROPERTIES ⁽²⁾			
Haze	%	< 8	D 1003
Gloss (20°)	%	>50	D 2457
Gloss (60°)	%	>100	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 HP2023N are:

Melt temperature : 160 - 200°C

Blow up ratio : 2 - 3

Recommended thickness : 20 - 100 micron

FOOD REGULATION

SABIC® LDPE HP2023N 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.

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