

POLYMERS SABIC® LDPE HP2023J

Low Density Polyethylene for Blown Film (Provisional Datasheet)

PRODUCT DESCRIPTION:

SABIC® LDPE HP2023J is a Low Density Polyethylene grade formulated with slip and anti-block additives. It typically exhibits better draw down ability with high output. Films typically have good optics with low friction and low blocking.

Erucamide : 500 ppm Natural Silica : 1000 ppm

TYPICAL APPLICATIONS:

Thin shrink film, lamination film, packaging films for food and industrial goods, bags & pouches. It also enables high speed converting without sticking.

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 Density @ 23°C	g/10 min. kg/m³	2 923	ISO 1133 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	%	< 20	ISO 8295
FILM OPTICAL PROPERTIES (2)			
Haze	%	< 9	D 1003
Gloss (20°)	%	>50	D 2457
Gloss (60°)	%	>100	D 2457

PROCESSING CONDITIONS:

Typical processing conditions for HP2023J are:

Melt temperature: 160 - 200°C

Blow up ratio: 2 - 3

Recommended thickness: 20 - 60 micron

⁽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