

POLYMERS

SABIC[®] LDPE

HP0823J

Low Density Polyethylene for Blown Film
(Provisional Datasheet)

PRODUCT DESCRIPTION:

SABIC[®] LDPE HP0823J is a Low Density Polyethylene grade formulated with slip and anti-block additives. It typically exhibits good melt strength with good draw down ability. Films typically exhibit good toughness and good biaxial shrink properties with low friction and low blocking.

Erucamide : 500 ppm
Natural Silica : 900 ppm

TYPICAL APPLICATIONS:

Shrink film, thin industrial film, thin packaging film, bags & pouches. This grade 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	g/10 min.	0.8	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	111	ISO 3146
FILM MECHANICAL PROPERTIES ⁽²⁾			
Tensile Stress @ Yield	MPa	11	ISO 527, -2
Tensile Stress @ Break (MD)	MPa	24	ISO 527, -3
Tensile Stress @ Break (TD)	MPa	22	ISO 527, -3
Tensile Strain @ Break (MD)	%	300	ISO 527, -3
Tensile Strain @ Break (TD)	%	600	ISO 527, -3
Tensile Modulus	MPa	260	ISO 527, -2
Dart Drop Impact	g	150	ASTM D 1709
Coefficient of Friction	%	< 20	ISO 8295
FILM OPTICAL PROPERTIES ⁽²⁾			
Haze	%	< 9	D 1003
Gloss (20°)	%	>40	D 2457
Gloss (60°)	%	>90	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 HP0823J are:

Melt temperature : 170 - 220°C

Blow up ratio : 2.5 - 4.0

Recommended thickness : 25 - 80 micron

FOOD REGULATION

SABIC® LDPE HP0823J 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

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