

POLYMERS

SABIC[®] LDPE

HP0823N

Low Density Polyethylene for Blown Film
(Provisional Datasheet)

PRODUCT DESCRIPTION:

SABIC[®] LDPE HP0823N 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, heat seal, optics and has good biaxial shrink properties.

TYPICAL APPLICATIONS:

Shrink film, lamination film, 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.	0.8	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	26	ISO 527, -3
Tensile Stress @ Break (TD)	MPa	24	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	%	> 80	ISO 8295
FILM OPTICAL PROPERTIES ⁽²⁾			
Haze	%	< 8	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 HP0823N are:

Melt temperature : 170 - 220°C

Blow up ratio : 2.5 - 4.0

Recommended thickness : 25 - 100 micron