POLYMERS

SABIC® LDPE HP0823 series

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC® HP0823 is 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.

HP0823N: No Slip & No Antiblock
HP0823J: 500 ppm Slip & 900 ppm Antiblock

TYPICAL APPLICATIONS:

Shrink film, thin industrial film, thin packaging film, bag & pouches. This grade enables high speed converting without sticking.

TYPICAL PROPERTY VALUES:

PROPERTIES	Unit	Value (1)	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.8	D 1238
Density @ 23°C	kg/m3	923	D 1505
MECHANICAL PROPERTIES (2)			
Tensile Strength @ break, MD	MPa	29	D 882
TD		25	
Tensile Elongation @ break, MD	%	240	D 882
TD		650	
Tensile Strength @ yield, MD	MPa	12	D 882
TD		12	
1% Secant Modulus, MD	MPa	208	D 882
TD		210	
Dart Impact Strength	g/ micron	2	D 1709
Tear Resistance, MD	g/ micron	10	D 1922
TD	g/ micron	6	D1004
OPTICAL PROPERTIES (2)			
Haze	%	10	D 1003
Gloss @ 45°	-	55	D 2457
Thermal Properties			
Vicat Softening Point	°C	95	D 1525

(1) Typical values; not to be construed as specification limits.
(2) Properties have been measured by producing 50 µ film with 2.5 BUR using 100% HP0823.

PROCESSING CONDITIONS:

Typical molding conditions for HP0823 are:
Melt temperature: 170 - 185°C
Blow up ratio: 2.0 – 4.0

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

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.