

POLYMERS

SABIC[®] LDPE HP2023 Series

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC[®] HP2023 series resins are Low Density Polyethylene grades suitable for general-purpose packaging. They exhibit better draw down, good optical and mechanical properties.

HP2023N: No Slip & No Antiblock

HP2023J: 500 ppm Slip & 1000 ppm Antiblock

TYPICAL APPLICATIONS:

Thin shrink film, lamination film, produce bags, textile packaging, soft goods packaging, general-purpose bags with good optics and t-shirts carrier bags.

TYPICAL PROPERTY VALUES:

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	2.0	D 1238
Density @ 23°C	kg/m ³	923	D 1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ break, MD	MPa	20	D 882
TD		15	
Tensile Elongation @ break, MD	%	300	D 882
TD		588	
Tensile Strength @ yield, MD	MPa	12	D 882
TD		12	
1% Secant Modulus, MD	MPa	235	D 882
TD		271	
Dart Impact Strength	g/micron	2	D 1709
Tear Resistance, MD	g/micron	15	D 1922
TD	g/micron	11	D1004
OPTICAL PROPERTIES ⁽²⁾			
Haze	%	8	D 1003
Gloss @ 45°	-	61	D 2457
Thermal Properties			
Vicat Softening Point	°C	92	D 1525

(1) Typical values; not to be construed as specification limits.

(2) Properties have been measured by producing 30 μ film with 2.5 BUR using 100% HP2023.

PROCESSING CONDITIONS:

Typical molding conditions for HP2023 are:

Barrel temperature: 160 - 190°C

Blow up ratio: 2.0 – 3.0

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.

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