

POLYMERS

# SABIC<sup>®</sup> LDPE HP4023W

## Low Density Polyethylene for Blown Film

### PRODUCT DESCRIPTION:

SABIC<sup>®</sup> HP4023W is Low Density Polyethylene grade suitable for producing general-purpose films and contains slip and antiblock additives. It gives excellent processability and optical properties with good mechanical properties.

Slip : 900 ppm

Anti-block: 1200 ppm

### TYPICAL APPLICATIONS:

HP4023W can be used for high clarity laundry bags, textile wrapping films, produce bags, zip lock bags.

### TYPICAL PROPERTY VALUES:

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	4.0	D 1238
Density @ 23°C	kg/m <sup>3</sup>	923	D 1505

#### MECHANICAL PROPERTIES <sup>(2)</sup>

Tensile Strength @ break, MD	MPa	18	D 882
TD		15	
Tensile Elongation @ break, MD	%	270	D 882
TD		540	
Tensile Strength @ yield, MD	MPa	7	D 882
TD		7	
1% Secant Modulus, MD	MPa	60	D 882
TD		170	
Dart Impact Strength	g/micron	2	D 1709
Tear Resistance, MD	g/micron	5	D 1922
TD	g/micron	4	D1004

#### OPTICAL PROPERTIES <sup>(2)</sup>

Haze	%	7	D 1003
Gloss @ 45°	-	75	D 2457

#### Thermal Properties

Vicat Softening Point	°C	91	D 1525
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(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% HP4023W.

## PROCESSING CONDITIONS:

Typical molding conditions for HP4023W 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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