

POLYMERS

# SABIC<sup>®</sup> LDPE HP4024 Series

## Low Density Polyethylene for Blown Film

### PRODUCT DESCRIPTION:

SABIC<sup>®</sup> HP4024 are Low Density Polyethylene grade suitable for producing general-purpose films and it gives excellent processability and optical properties with good mechanical properties.

HP4024N: No Slip & No Antiblock and No Antioxidant

HP4024W: 600 ppm Slip & 1800 ppm Antiblock

### TYPICAL APPLICATIONS:

HP4024 can be used for high clarity laundry bags, textile wrapping films, produce bags, zip lock bags and master batch.

### 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	32	D 882
TD		24	
Tensile Elongation @ break, MD	%	265	D 882
TD		600	
Tensile Strength @ yield, MD	MPa	10	D 882
TD		10	
1% Secant Modulus, MD	MPa	277	D 882
TD		224	
Dart Impact Strength	g/micron	2	D 1709
Tear Resistance, MD	g/micron	10	D 1922
TD	g/micron	14	D1004

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

Haze	%	6	D 1003
Gloss @ 45°	-	68	D 2457

#### Thermal Properties

Vicat Softening Point	°C	92	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% HP4024.

## PROCESSING CONDITIONS:

Typical molding conditions for HP4024 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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