



## HP4023W

### Low Density Polyethylene for Blown Film

#### Product Description

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.

#### Typical Applications

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

Formulation: 800 ppm Slip & 1950 ppm Antiblock

#### Typical data

Properties	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate @190°C & 21.6 kg load	g/ 10 min.	4	D 1238
Density @ 23°C	kg/m <sup>3</sup>	923	D 1505
Mechanical Properties(2)			
Tensile Strength @ break, MD TD	MPa	18	D 882
Tensile Elongation @ break, MD TD	%	15	D 882
Tensile Strength @ yield, MD TD	MPa	270	D 882
1% Secant Modulus, MD TD	MPa	540	D 882
Dart Impact Strength	g	7	D 1709
Elmendorf Tear Strength, MD TD	g	7	D 1922
Optical Properties(2)			
Haze	%	60	D 1003
Gloss @ 45°	-	75	D 2457
Thermal Properties			
Vicat Softening Point	°C	91	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% HP4023W.

#### Product Description

Typical processing conditions for HP4023W are:

Melt temperature: 160 - 175°C

Blow up ratio: 2 - 3

### **Food Regulation**

HP4023W is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

### **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 don't 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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