

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.

Formulation: 800 ppm Slip & 1950 ppm Antiblock

Typical Applications

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

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	4	D 1238
Density @ 23°C	kg/m ³	923	D 1505
Mechanical Properties⁽²⁾			
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	160	D 882
TD		170	
Dart Impact Strength	g	60	D 1709
Elmendorf Tear Strength, MD	g	150	D 1922
TD		120	
Optical Properties⁽²⁾			
Haze	%	7	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.

Processing Conditions

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.