

POLYMERS

SABIC® LDPE HP4023W

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC® 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 ⁽¹⁾	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	4.0	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	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	D 1004

OPTICAL PROPERTIES ⁽²⁾

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.