

# SABIC® LDPE HP4023W

Low Density Polyethylene

SABIC Americas, Inc.

## Message:

### 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.

General Information			
Additive	Anti-caking agent (1950 ppm)		
	Sliding agent (800 ppm)		
Features	Low density		
	smoothness		
	Optical		
	Anti-caking property		
	Workability, good		
Uses	Compliance of Food Exposure		
	Films		
	Bags		
	Laundry bag		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
secant modulus			ASTM D882
1% secant, MD: 30 µm, blown film	60.0	MPa	ASTM D882
1% secant, TD: 30 µm, blown film	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 30 µm, blown film	7.00	MPa	ASTM D882
TD: Yield, 30 µm, blown film	7.00	MPa	ASTM D882
MD: Broken, 30 µm, blown film	18.0	MPa	ASTM D882
TD: Broken, 30 µm, blown film	15.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 30 µm, blown film	270	%	ASTM D882
TD: Broken, 30 µm, blown film	540	%	ASTM D882
Dart Drop Impact (30 µm, Blown Film)	60	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 30 µm, blown film	150	g	ASTM D1922
TD: 30 µm, blown film	120	g	ASTM D1922
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	91.0	°C	ASTM D1525
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss (45°, 30.0 µm, Blown Film)	75		ASTM D2457
Haze (30.0 µm, Blown Film)	7.0	%	ASTM D1003
<b>Additional Information</b>	<b>Nominal Value</b>		
Blow-up Ratio	2.00 - 3.00		
Properties have been measured by producing 30 µ film with 2.5 BUR using 100% HP4023W.			
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	160 - 175	°C	

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