

# SABIC® LDPE HP2023JN

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

HP2023JN is a Low Density Polyethylene grade suitable for general-purpose packaging. It exhibits better draw down, good optical and mechanical properties. HP2023JN contains slip and antiblock additives.

### TYPICAL APPLICATIONS

Thin shrink film, lamination film, produce bags, textile packaging, soft goods packaging, general-purpose bags with good optics and t-shirts carrier bags.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16 kg	2.0	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	923	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
Slip agent	<input checked="" type="checkbox"/>	-	-
Anti block agent	<input checked="" type="checkbox"/>	-	-
<b>OPTICAL PROPERTIES <sup>(1)</sup></b>			
Haze	8	%	ASTM D1003
<b>Gloss</b>			
at 45°	61	%	ASTM D2457
<b>FILM PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Properties</b>			
stress at break, MD	20	MPa	ASTM D882
stress at break, TD	15	MPa	ASTM D882
strain at break, MD	300	%	ASTM D882
strain at break, TD	588	%	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	235	MPa	ASTM D882
1% secant modulus, TD	271	MPa	ASTM D882
<b>Tear Resistance</b>			
MD	15	g/μm	ASTM D1922
TD	11	g/μm	ASTM D1922
<b>Dart Impact F50</b>			
	2	g	ASTM D1709
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	92	°C	ASTM D1525