

# SABIC® LDPE HP2025JN

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

LDPE HP2025JN Low Density Polyethylene Resin is a high clarity resin designed for clarity over wraps applications. When properly fabricated, LDPE HP2025JN displays: excellent processability and drawdown; very good toughness and draw down; superior optical properties; and excellent tensile and tear strength. It can be readily extruded using conventional blown film techniques utilizing melt temperatures between 160 and 175 OC. HP2025JN Contains Slip and antiblock additives. LDPE HP2025JN grade has very low level of gels.

### TYPICAL APPLICATIONS

- Light-produce bags.
- Soft goods packaging.
- Textile packaging.
- Good optical general purpose bags.
- Hygiene films.
- Food packaging films.

### TYPICAL PROPERTY VALUES

Revision 20221026

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16kg	2.00	g/10 min	ISO 1133
<b>Density</b>			
at 23°C	.925	g/cm <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Dart Impact Strength</b>	110	g	ASTM D1709
<b>Dart Impact Strength</b>	2	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES <sup>(1) (2)</sup></b>			
<b>Haze</b>	8	%	ASTM D1003
<b>*Gloss</b>			
Gloss (45°)	55	-	ASTM D2457
<b>FILM PROPERTIES <sup>(1) (2)</sup></b>			
<b>Tensile Properties</b>			
1% secant modulus, MD	190	MPa	ASTM D882
1% secant modulus, TD	210	MPa	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
stress at break, MD	22.0	MPa	ASTM D882
stress at break, TD	20.0	MPa	ASTM D882
strain at break, MD	450	%	ASTM D882
strain at break, TD	350	%	ASTM D882
<b>Elmendorf Tear Strength <sup>(1) (2)</sup></b>			
MD	16	g/μm	ASTM D1922
TD	11	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vicat Softening Point	96.0	°C	ASTM D1525

(1) Properties have been measured by producing 50 μ film with 2.5 BUR using 100%

(2) Typical values: not to be construed as specification limits.

## PROCESSING CONDITIONS

Typical processing conditions for LDPE HP2025NN are:

Barrel temperature: 160- 175°C, Blow up ratio: 2.5:1

## 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 do not 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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