

# SABIC® LDPE HP4027JN

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

HP4027JN is a Low Density Polyethylene grade with increase density. It typically exhibits better draw down ability with high output. Films typically have excellent optics and high rigidity. HP4027JN contains slip and antiblock additives.

### TYPICAL APPLICATIONS

Thin shrink film, lamination film, packaging film for food and industrial goods, bags & pouches. These grades are typically suitable where high optics, enhance stiffness and down gauging are required.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	4.0	g/10 min	ASTM D1238
<b>FORMULATION</b>			
Slip agent	✓	-	-
Anti block agent	✓	-	-
<b>MECHANICAL PROPERTIES</b>			
Dart Impact Strength	3	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
Haze <sup>(1)</sup>	5	%	ASTM D1003
<b>Gloss</b>			
at 45°	72	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties</b>			
stress at break, MD	19	MPa	ASTM D882
stress at break, TD	19	MPa	ASTM D882
strain at break, MD	256	%	ASTM D882
strain at break, TD	536	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	270	MPa	ASTM D882
1% secant modulus, TD	266	MPa	ASTM D882
<b>Tear Resistance</b>			
MD	10	g/μm	ASTM D1922
TD	14	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	92	°C	ASTM D1525

(1) Properties have been measured by producing 30 μm film with 2.5 BUR using 100% HP4027JN.