



# SABIC® LDPE HP4024N

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

HP4024N is a Low Density Polyethylene grade suitable for producing general-purpose films and it gives excellent processability and optical properties with good mechanical properties. HP4024N contains no slip and no antiblock additives.

### TYPICAL APPLICATIONS

HP4024N can be used for high clarity laundry bags, textile wrapping films, produce bags, zip lock bags and master batch.

### 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	4.0	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	923	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Dart Impact Strength</b> <sup>(1)</sup>	2	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Haze</b>	6	%	ASTM D1003
<b>Gloss</b>			
at 45°	68	-	ASTM D2457
<b>FILM PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile Properties</b>			
stress at break, MD	32	MPa	ASTM D882
stress at break, TD	24	MPa	ASTM D882
strain at break, MD	265	%	ASTM D882
strain at break, TD	600	%	ASTM D882
stress at yield, MD	10	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	277	MPa	ASTM D882
1% secant modulus, TD	224	MPa	ASTM D882
<b>Tear Resistance</b>			
MD	10	g/μm	ASTM D1922
TD	14	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point</b>	92	°C	ASTM D1525