

# SABIC® LDPE HP0322NN

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

HP0322NN is a Low Density Polyethylene grade suitable for producing heavy-duty films and does not contain slip, antiblock and antioxidant additives. It gives outstanding toughness and optical properties in the film.

### TYPICAL APPLICATIONS

HP0322NN can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16kg	0.33	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	922	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Dart Impact Strength</b>	4	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b> <sup>(1)</sup>	11	%	ASTM D1003
<b>Gloss</b>			
at 45°	50	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties</b>			
stress at break, MD	31	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	450	%	ASTM D882
strain at break, TD	690	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	190	MPa	ASTM D882
1% secant modulus, TD	210	MPa	ASTM D882
<b>Tear Resistance</b>			
MD	8	g/μm	ASTM D1922
TD	6	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	95	°C	ASTM D1525

(1) Properties have been measured by producing 50 μm film with 2.5 BUR using 100% HP0322NN.