

SABIC® LDPE HP0323NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP0323NN is a Low Density Polyethylene grade suitable for producing heavy-duty films. It gives outstanding toughness and optical properties in the film. It contains no slip, no antistatic and no antioxidant additives.

TYPICAL APPLICATIONS

HP0323NN can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	0.30	g/10 min	ASTM D1238
Density			
at 23°C	923	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Dart Impact Strength ⁽¹⁾	2	g/μm	ASTM D1709
OPTICAL PROPERTIES ⁽¹⁾			
Haze	15	%	ASTM D1003
Gloss			
at 45°	38	%	ASTM D2457
FILM PROPERTIES ⁽¹⁾			
Tensile Properties			
stress at break, MD	32	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	235	%	ASTM D882
strain at break, TD	570	%	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	200	MPa	ASTM D882
1% secant modulus, TD	260	MPa	ASTM D882
Tear Resistance			
MD	2.4	g/μm	ASTM D1922
TD	3	g/μm	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	95	°C	ASTM D1525

⁽¹⁾ Properties have been measured by producing 50 μm film with 2.5 BUR using 100% HP0323NN.