

# SABIC® LDPE HP0722NN

LOW DENSITY POLYETHYLENE FOR BLOWN FILM

## DESCRIPTION

HP0722NN is an additive free low density polyethylene grade suitable for producing medium duty films. It gives good toughness and optical properties in the film.

## TYPICAL APPLICATIONS

HP0722NN can be used for medium duty bags, shrink films, shopping bags, lamination films and frozen food packaging.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	0.75	g/10 min	ASTM D1238
<b>MECHANICAL PROPERTIES</b>			
Dart Impact Strength <sup>(1)</sup>	2	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
Haze	9	%	ASTM D1003
Gloss @ 45°	60	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties</b>			
stress at break, MD	26	MPa	ASTM D882
stress at break, TD	24	MPa	ASTM D882
strain at break, MD	235	%	ASTM D882
strain at break, TD	560	%	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	11	MPa	ASTM D882
1% secant modulus, MD	190	MPa	ASTM D882
1% secant modulus, TD	220	MPa	ASTM D882
<b>Tear Resistance</b>			
MD	6	g/μm	ASTM D1922
TD	4	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	95	°C	ASTM D1525

(1) Properties have been measured by producing 50 μ film with 2.5 BUR using 100% HP0722NN