

# 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>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16kg	0.75	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 <sup>(1)</sup></b>	2	g/μm	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b>	9	%	ASTM D1003
<b>Gloss @ 45°</b>	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>			
<b>Vicat Softening Temperature</b>	95	°C	ASTM D1525

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

## PROCESSING CONDITIONS

Typical processing conditions for HP0722NN are:

Barrel temperature: 170 - 185°C

Blow up ratio: 2.0 - 4.0

## MEDICAL & FOOD REGULATION

HP0722NN is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contacts SABIC local representative for certificate. DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

## STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.