

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

Revision 20240716

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	0.75	g/10 min	ASTM D1238
Density			
at 23°C	922	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Dart Impact Strength ⁽¹⁾	2	g/μm	ASTM D1709
OPTICAL PROPERTIES			
Haze	9	%	ASTM D1003
Gloss @ 45°	60	-	ASTM D2457
FILM PROPERTIES			
Tensile Properties			
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
Tear Resistance			
MD	6	g/μm	ASTM D1922
TD	4	g/μm	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	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 contact 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.

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