SABIC® LDPE HP0724NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP0724NN is a fractional melt index low density polyethylene resin, containing no slip nor antiblock additives. HP0724NN has been specially designed for superior processability on blown films lines leading to significant output improvements. The resin offers additionally excellent draw down. It can be used pure or in blends with LLDPE resins. HP0724NN Does not Contain Slip or antiblock additives.

- Excellent processability and draw down
- Good physical properties in blends with LLDPE
- Can be readily extruded using conventional blown films techniques at melt temperatures between 160 and 195°C

TYPICAL APPLICATIONS

- Lamination films, Collation shrink, Shopping bags, Garbage bags.
- Health & hygiene films, Food packaging, Collation shrink, Agricultural films.

TYPICAL PROPERTY VALUES

Revision 20211024

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES (1)			
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	0.75	g/10 min	ASTM D1238
Density			
at 23°C	0.924	g/cm³	ASTM D792
MECHANICAL PROPERTIES (2)			
Dart Impact Strength	3.4	g/µm	ASTM D1709
OPTICAL PROPERTIES			
Gloss (45°)	58	‰	ASTM D2457
Haze	9.2	%	ASTM D1003
FILM PROPERTIES (2)			
Tensile Properties			
1% secant modulus, MD	175	MPa	ASTM D882
1% secant modulus, TD	185	MPa	ASTM D882
stress at yield, MD	11.0	MPa	ASTM D882
stress at yield, TD	11.0	MPa	ASTM D882
stress at break, MD	25.0	MPa	ASTM D882
stress at break, TD	23.0	MPa	ASTM D882
strain at break, MD	390	%	ASTM D882
strain at break, TD	570	%	ASTM D882
Elmendorf Tear Strength (2)			
MD	10	g/µm	ASTM D1922
TD	6	g/µm	ASTM D1922

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

(2) Typical values: not to be construed as specification limits.

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PROCESSING CONDITIONS

Typical processing conditions for HP0724NN are:
Barrel temperature: 160- 200°C, Blow up ratio: 2.5:1

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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