

Revision 20201103

SABIC® LDPE HP0322NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP0322NN is a Low Density Polyethylene grade suitable for producing heavy-duty films and does not contain slip, antiblock and antioxidant additives. It gives outstanding toughness and optical properties in the film.

TYPICAL APPLICATIONS

HP0322NN can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

TYPICAL PROPERTY VALUES

PROPERTIES **TEST METHODS TYPICAL VALUES** UNITS POLYMER PROPERTIES Melt Flow Rate (MFR) 0.33 at 190°C and 2.16kg g/10 min ASTM D1238 Density 922 ASTM D1505 at 23°C kg/m³ MECHANICAL PROPERTIES Dart Impact Strength 4 g/µm ASTM D1709 OPTICAL PROPERTIES Haze⁽¹⁾ 11 % ASTM D1003 Gloss at 45° 50 ASTM D2457 FILM PROPERTIES **Tensile Properties** stress at break, MD 31 MPa ASTM D882 ASTM D882 stress at break. TD 30 MPa strain at break, MD 450 % ASTM D882 strain at break. TD 690 ASTM D882 % stress at yield, MD 11 MPa ASTM D882 stress at yield, TD 10 MPa ASTM D882 1% secant modulus, MD 190 MPa ASTM D882 1% secant modulus, TD 210 ASTM D882 MPa Tear Resistance MD 8 ASTM D1922 g/µm TD 6 ASTM D1922 g/µm 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% HP0322NN.



PROCESSING CONDITIONS

Typical processing conditions for HP0322NN are: Barrel temperature: 180 - 195°C, Blow up ratio: 2.0 – 4.0

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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