

Revision 20201103

SABIC® LDPE HP2027LN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP2027LN is a Low Density Polyethylene grade with increase density. It typically exhibits better draw down ability with high output. Films typically have excellent optics and high rigidity. It contains slip and antiblock additives.

TYPICAL APPLICATIONS

Thin shrink film, lamination film, packaging film for food and industrial goods, bags & pouches. These grades are typically suitable where high optics, enhance stiffness and down gauging, are required.

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** POLYMER PROPERTIES Melt Flow Rate (MFR) at 190°C and 2.16 kg ASTM D1238 2.0 g/10 min Density at 23°C 927 kg/m³ ASTM D1505 FORMULATION \checkmark Slip agent MECHANICAL PROPERTIES Dart Impact Strength 2 ASTM D1709 g/µm **OPTICAL PROPERTIES** Haze⁽¹⁾ 4 % ASTM D1003 Gloss 72 ASTM D2457 at 45° FILM PROPERTIES **Tensile Properties** stress at break. MD 27 MPa ASTM D882 stress at break, TD 18 MPa ASTM D882 strain at break, MD 326 % ASTM D882 strain at break. TD 522 % ASTM D882 stress at yield, MD 11 MPa ASTM D882 stress at yield, TD 18 MPa ASTM D882 1% secant modulus, MD ASTM D882 260 MPa ASTM D882 1% secant modulus, TD 290 MPa Tear Resistance MD 9 ASTM D1922 g/µm TD 14 g/µm ASTM D1922 THERMAL PROPERTIES Vicat Softening Temperature 92 °C ASTM D1525

(1) Properties have been measured by producing 30 μm film with 2.5 BUR using 100% HP2027LN.

CHEMISTRY THAT MATTERS

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PROCESSING CONDITIONS

Typical processing conditions for HP2027LN are: Barrel temperature: 160 - 190°C, Blow up ratio: 2.0 – 3.0

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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