







SABIC® LDPE HP2025NN

LOW DENSITY POLYETHYLENE

TYPICAL APPLICATIONS

DESCRIPTION

LDPE HP2025NN Low Density Polyethylene Resin has been designed with and optimum balance of melt strength and drawability to give excellent performance in cast film, foam, blown film and bubble film extrusion. When properly fabricated, LDPE HP2025NNdisplays: excellent processability; low neck-down (cast film); very good toughness and impact properties; and good tear strength. In foam extrusion, LDPE HP2025NN gives and ideal balance between cell growth and stabilization to allow the production of very low density products without voids. The resin Does not contain any slip or antiblock additive. LDPE HP2025NN has very low level of gels

Foam. Bubble film. General purpose blown film. TYPICAL PROPERTY VALUES Revision 20210627 TYPICAL VALUES **PROPERTIES** UNITS **TEST METHODS** POLYMER PROPERTIES (1) Melt Flow Rate (MFR) at 190°C and 2.16kg 2.0 g/10 min ASTM D1238 Density at 23°C 0.923 g/cm³ ASTM D792 MECHANICAL PROPERTIES (2) Dart Impact Strength g/µm ASTM D1709 **OPTICAL PROPERTIES** Gloss (45°) 62 % ASTM D2457 Haze 8 ASTM D1003 FILM PROPERTIES (1) (2) Tensile Properties 190 ASTM D882 1% secant modulus, MD MPa 1% secant modulus, TD 210 MPa ASTM D882 12 stress at yield, MD MPa ASTM D882 stress at vield, TD 12 MPa ASTM D882 stress at break, MD 20 MPa ASTM D882 15 MPa ASTM D882 300 ASTM D882 strain at break, MD strain at break, TD 550 ASTM D882 Elmendorf Tear Strength (2) MD 15 ASTM D1922 g/µm ASTM D1922 12 g/µm THERMAL PROPERTIES °C ASTM D1525 Vicat Softening Point 98.0

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

⁽²⁾ These are typical properties and are not to be construed as specification







PROCESSING CONDITIONS

Typical processing conditions for LDPE HP2025NN 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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